

# INDEX

## COPEIA, 2006, NOS. 1-4

### NEW NAMES

- Aldabrachampsus* 151-153, 155-156  
*dilophus* 149-155  
*Apareiodon vladii* 90-94  
*Aphanius isfahanensis* 244-255  
*Brachyhyopomus bombilla* 665-673  
*Calumma*  
*amber* 713, 715-717, 719, 731-732  
*crypticum* 713, 715-716, 718-721, 731-732  
*hafahafa* 715, 726-727, 730-732  
*jeji* 715, 721-723, 731-732  
*peltiororum* 715, 721, 723-727, 731-732  
*tsycorne* 715, 728-732  
*Chaetostoma changae* 61-66  
*Cryothenia amphitrete* 752-759  
*Echinosaura sulcarostrum* 396-401  
*Entomocorus radious* 412-422  
*Eplatretus goliath* 225-229  
*Gastrotheca cariniceps* 596-602  
*Guianacara*  
*cuyunii* 384-395  
*stergiosi* 384-395  
*Henonemus triacanthopomus* 198-205  
*Knodus tiquiensis* 630-639  
*Leptophilypnus guatemalensis* 492-494, 496-498  
*Lycodes akuugun* 77-82  
*Maxillicosta meridianus* 445-459  
*Notropis amplamala* 423-430  
*Orestias piacotensis* 472-477  
*Paraxenisthmus cerberusi* 10-13  
*Platymantis nakanaiorum* 675-681, 686-687, 692-695  
*Raiamas kheeli* 370-377  
*Rhabdoliclops*  
*lundbergi* 27-42  
*navalha* 27-42  
*nigrimans* 27-42  
*Rana*  
*compotrix* 48, 52-56  
*cucae* 44-49, 52, 56  
*vitrea* 48-51, 54, 56  
*Scorpaena gasta* 360-369  
*Sinilabeo hummeli* 96-102  
*Spiniphryne duhameli* 404-411  
*Symphurus monostigmus* 230-234  
*Tetranematichthys wallacei* 168-172, 175-179

### NEW AND ESTABLISHED NAMES

- Acalyptophis peronii* 345  
*Acanthaster planci* 122, 126  
*Acanthocerus atricollis* 662  
*Acanthopoma* 198-205  
*annectens* 204  
*Acanthostracion*  
*polygonia* 561  
*polygonius* 560-561  
*Acanthurus bahianus* 560-561  
*Acari* 607  
*Acarichthyini* 385  
*Acarichthys* 385  
*Acer saccharum* 645  
*Aceraceae* 645  
*Acheta domesticus* 645  
*Achalimus*  
*meiguensis* 345  
*spinalis* 345  
*Acipenser* 324-325  
*ruthenus* 324  
*Acontias*  
*meleagris* 211  
*perivali* 108, 110  
*plumbeus* 108, 111, 211-213  
*sp.* 662  
*Acontinae* 108  
*Acrididae* 295  
*Acris*  
*crepitans*  
*c. blanchardi* 159-167  
*c. crepitans*  
*Acrochordidae* 212-213  
*Acrochordus* 344  
*arafurae* 345  
*granulatus* 208, 212, 214, 345  
*sp.* 346  
*Actinopterygii* 324-325  
*Adenomera barbouri* 346  
*Aequidens geayi* 385  
*Aeshna* 479  
*Aethotaxis* 752, 756-757  
*mitopteryx* 757-758  
*Afrana*  
*angolensis* 663  
*sp.* 663  
*Afronatrix anascopus* 346  
*Agama* 659  
*aculeata* 658  
*agama* 663  
*sp.* 658  
*Agamidae* 110, 658  
*Agave lechuguilla* 302  
*Agenciosidae* 169, 177  
*Ageneiosus* 169, 176  
*quadrifilis* 168, 171, 177  
*sp.* 420  
*Aghistrodon*  
*bilineatus* 346

- b. taylori* 346  
*contortrix* 316, 346, 819–822  
*c. phaeogaster* 346  
*piscivorus* 346  
**Agnatha** 321  
*Ahaetulla* 265  
   *mycterizans* 346  
   *nasuta* 346  
   *prasina* 346  
   sp. 346  
*Aipysurus eydouxii* 346  
**Albula** 778–784  
   *forsteri* 779–782  
   *glossodonta* 779–782  
   *nemoptera* 778–784  
   *neoguinaica* 779  
   *pacifica* 783  
   sp. A 778, 781–782  
   sp. B 778–782  
   sp. C 778–782  
   sp. D 778–782  
   sp. E 778–784  
   *vulpes* 778–784  
**Albulidae** 778–784  
**Albuliformes** 778–784  
**Aldabrachampsus** 151–153, 155–156  
   *dilophus* 149–155  
**Alethinophidia** 212  
*Alfaro cultratus* 614  
*Alliaria petiolata* 743  
*Alligator mississippiensis* 155  
**Alligatoroidea** 155  
*Allomicrodesmus* 10, 13  
*Allotoca zacapuensis* 560  
**Atelopoglossus**  
   *angulatus* 401  
   *atriventris* 401  
   *buckleyi* 401  
   *carinicaudatus* 401  
   *copii* 401  
   *festae* 401  
*Alosa pseudoharengus* 645  
*Alsophis sanctaerucis* 346  
*Amblygobius* 322  
*Amblyodipsas* 109, 112  
   *concolor* 111–112  
   *katangensis* 111–112  
   *microphthalma* 111–112  
   *polylepis* 103–115  
   *unicolor* 111–112, 346  
   *ventrimaculata* 103–115  
**Ambystoma**  
   *maculatum* 640–649  
   *mexicanum* 578  
   *opacum* 641  
   *tigrinum* 641–642, 644–646  
*Ameiurus* 379, 699  
   *brunneus* 610  
   *melas* 698  
   *natalis* 698  
   *platycephalus* 610  
   *serracanthus* 610  
*Ameiva ameiva* 463–468  
*Amia* 324, 578  
**Amolops** 56  
   *bellulus* 44–45, 49, 54, 56  
   *chunganensis* 43–59  
   *monticola* 44–45, 49, 54  
**Amphibia** 43–59, 256–260, 623–629, 674–695  
**Amphibolurus**  
   *isolepis* 298  
   *nuchalis* 536–537  
*Amphiesma craspedogaster* 346  
   *stolatum* 346  
**Amphisbaenidae** 212  
*Amphisbaena* 108  
   *alba* 210–212, 214  
**Anabantidae** 327  
**Anabantoidei** 327  
**Anabantomorpha** 327–328  
**Anablepidae** 613–622  
**Anableps** 613  
   *anableps* 614–615  
   *dowi* 614–615  
   *microlepis* 614–615  
**Anadia**  
   *bogotensis* 401  
   *marmorata* 401  
   *ocellata* 401  
   *pamplonensis* 401  
   *rhombifera* 401  
*Anas acutas* 645  
*Anax* 479, 481, 486  
   *junius* 479, 481  
*Anchoa exigua* 559–560  
**Anculosa** 610  
**Ancylidae** 610  
*Andropogon* 743, 749  
**Aniliidae** 212  
*Anilius* 345  
   *scytale* 212, 214, 342, 346  
**Anguidae** 212  
*Anguis fragilis* 211  
**Annelida** 465  
*Anolis* 573–574  
   *carolinensis* 301  
   *nebulosus* 6  
   *nitens* 462–468  
*Anomalepis aspinosus* 209  
*Anomochilus weberi* 208–209  
**Anura** 188, 558, 595–603, 674–695  
**Aparallactinae** 112  
**Aparallactus** 108  
   *capensis* 108, 110, 658  
   *lunulatus* 346  
   *werneri* 111, 346  
*Apareiodon* 89–95  
   *affinis* 89, 92–94  
   *cavalcante* 90  
   *hasemani* 90  
   *ibitiensis* 89–95  
   *piracicabae* 89–95

- vladii* 90-94  
 Aphaniinae 476  
*Aphanius* 244-255  
   *anatoliae* 244-245, 248, 249, 253  
   *a. anatoliae* 250, 254  
   *a. splendens* 250, 254  
   *asquamatus* 245, 249-250, 254  
   *danfordii* 245, 249-250, 254  
   *dispar* 248  
   *fasciatus* 245, 248-250, 254  
   *isfahanensis* 244-255  
   *persicus* 244-255  
   *sophiae* 244-255  
   *villwocki* 245, 249-250, 254  
   *vladykovi* 244-254  
*Aplocheilichthyinae* 614  
*Aplocheilichthys spilauchen* 614-616, 620  
*Aplocheilichthys grunniens* 268, 610  
*Apogon* 322  
   *dovii* 560-561  
*Apomatoceros* 198-205  
   *alleni* 204  
*Apteronotidae* 826-833  
*Apteronotus* 827  
   *albifrons* 832  
   *anas* 826  
   *apurensis* 827, 832  
   *bonapartii* 826-833  
   *macrolepis* 832  
   *macrostomus* 827  
   *mutabilis* 827  
   *sedis* 827  
   *sp. 1* 832  
   *sp. 2* 832  
   *sp. 3* 832  
   *sp. 4* 832  
*Aranae* 465  
*Arapaima* 325  
*Archolaemus* 29  
   *blax* 29, 37  
*Aristelliger georgensis* 265  
*Arizona elegans elegans* 346  
*Arthroleptis stenodactylus* 663-664  
*Arthrosaura*  
   *kockii* 401  
   *reticulata* 401  
   *tyleri* 401  
*Asiatosuchus*  
   *germanicus* 155  
   *grangeri* 155  
*Asimina triloba* 645  
*Aspidelaps*  
   *lubricus* 346  
   *l. lubricus* 346  
*Aspidomorphus muelleri* 346  
*Aspidoscelis* 14-26  
   *angusticeps* 22  
   *communis* 6  
   *cozumela* 14-26  
   *deppei* 22  
   *dixoni* 14-26  
   *exanguis* 22  
   *flagellicauda* 21-22  
   *gularis* 20  
   *g. septemvittata* 14-26  
   *innodata* 22  
   *laredoensis* 16, 18, 22  
   *lineatissima* 6  
   *marmorata* 14-26  
   *maslini* 21-23  
   *neomexicana* 15-16, 20, 22  
   *neotesselata* 15-16, 20-22  
   *opatae* 22  
   *rodecki* 16, 21-22  
   *sexlineata* 14-26  
   *s. viridis* 15-16, 21  
   *sonorae* 21-22  
   *tesselata* 14-26  
   *tigris* 18, 20  
   *t. marmorata* 14-26  
   *uniparens* 16, 21-22  
   *velox* 16, 21-22  
*Aspidura trachyprocta* 346  
*Astyanax* 620  
   *gymnogenys* 620  
*Atheresthes stomias* 81  
*Atherinidae* 559  
*Atherinomorpha* 326-327  
*Atherinopsidae* 431-436  
*Atheris*  
   *chlorechis* 346  
   *hispida* 346  
   *nitschei* 346  
   *squamigera* 346  
*Atractaspididae* 103-115, 650, 818  
*Atractaspis* 110, 112  
   *aterrima* 110, 112  
   *bibronii* 103-115, 346  
   *congica* 110, 112  
   *corpulenta* 110, 112, 346  
   *dahomeyensis* 346  
   *duerdeni* 110, 112  
   *irregularis* 110, 112, 346  
   *microlepidota* 346  
   *microlepidotus* 110, 112  
   *sp. 112*  
*Atractus*  
   *elaps* 346  
   *erythromelas* 346  
   *latifrons* 346  
   *ventrimaculatus* 346  
*Atropoides mummifer* 346  
*Attomitus* 635  
*Auchenipteridae* 168-180, 412-422  
*Auchenipterinae* 169  
*Auchenipterini* 412-413  
*Auchenipterus* 176, 412-413  
   *nuchalis* 173  
   *osteomystax* 420  
*Aulichthys* 326  
*Aurigequula longispinis* 542  
*Australosuchus clarkae* 155

- Azemioops feae* 346  
*Azevia* 561
- Bachia*  
*bresslaui* 401  
*dorbingyi* 401  
*heteropa* 401  
*huallagana* 401  
*intermedia* 401  
*monodactylus* 401  
*pallidiceps* 401  
*panophia* 401  
*peruana* 401  
*pyburni* 401  
*trinasale* 401
- Badidae* 327
- Bangana* 96–102  
*decora* 101  
*dero* 101  
*devdevi* 101  
*discognathoides* 101  
*lemassoni* 101  
*lippi* 101  
*rendahli* 98, 101  
*tonkinensis* 101  
*tungting* 96, 101  
*xanthogenys* 101
- Barbodes laticeps* 96
- Barbulifer mexicanus* 560–561
- Barbus* 553  
*neumayeri* 552–557
- Barilius* 370  
*barni* 376  
*christyi* 372  
*weeksi* 371
- Bathychaunax* 120–121  
*coloratus* 120  
*melanostomus* 120  
*roseus* 120
- Batrachochytrium dendrobatidis* 188–197
- Batrachoseps stebbinsi* 567
- Bernissartia fagesii* 149, 155
- Bertelsenna* 404–405
- Bitia hydroides* 346
- Bitis*  
*arietans* 346  
*atropos* 346  
*caudalis* 346  
*gabonica* 346  
*heraldica* 346  
*nasicornis* 346  
*peringueyi* 346
- Bivalvia* 607
- Blattaria* 465
- Boa*  
*constrictor* 261–267, 346  
*c. constrictor* 346  
*c. imperator* 346
- Boehlkea* 635
- Bogertophis subocularis* 346
- Boidae* 212
- Boiga*  
*blandingii* 346  
*ceylonensis* 346  
*cyanea* 346  
*cynodon* 346  
*dendrophila* 346  
*drapiezii* 346  
*irregularis* 346  
*jaspidia* 346  
*kraepelini* 346  
*multomaculata* 346  
*nigriceps* 346  
*pulverulenta* 346  
*trigonata* 346
- Bombina* 578
- Borealosuchus sternbergii* 155
- Bothriechis schlegelii* 346
- Bothriopsis*  
*pulchra* 346  
*punctata* 346
- Bothrochilus boa* 346
- Bothrophthalmus lineatus* 346
- Bothrops*  
*alternatus* 346  
*ammodioides* 346  
*asper* 346  
*atrox* 346  
*barnetti* 346  
*brazili* 346  
*cotiara* 346  
*jararaca* 346  
*jararacussu* 346  
*insularis* 265  
*itapetiningae* 346  
*microphthalmus* 346  
*neuwiardi* 346  
*sp.* 346
- Boulengerina annulata* 346
- Brachycampsa montana* 155
- Brachyhypopomus* 665–673  
*beebei* 667, 670  
*bombilla* 665–673  
*brevirostris* 665, 667, 670–671  
*janeiroensis* 667  
*jureiae* 667  
*occidentalis* 667, 670, 826  
*pinnicaudatus* 665–673, 826
- Brachyuranochampsa eversolei* 155
- Breviceps*  
*mossambicus* 663  
*poweri* 663
- Briba brasiliiana* 462–468
- Brookesia* 711–734
- Brosomphycis* 559
- Bryconacidnus* 635
- Bryconadenos tanaathoros* 635
- Bryconamericus* 630–632, 635–636  
*beta* 637  
*deuterodonoides* 630–632, 636–638  
*diaphanus* 636  
*pectinatus* 636

- peruanus* 636  
*ternetzi* 630, 636  
*Bufo* 578, 595  
   *americanus* 138  
   *boreas* 159, 194–195  
   *calamita* 274–280  
   *canorus* 194–195  
   *fenoleri* 138  
   *granulosus* 465  
   *loennbergi* 663  
   *marinus* 835  
   *sternosignatus*  
   *tacanaensis*  
   *terrestris*  
   *t. americanus*  
*Bufonidae* 194, 558  
*Bungarus*  
   *caeruleus* 346  
   *candidus* 346  
   *ceylonicus* 346  
   *fasciatus* 346  
   *flaviceps* 346  
   *multicinctus* 346  
   sp. 346  
  
*Cacalia plantaginea* 743, 749  
*Cacophis harriettae* 346  
*Gaiapobrycon* 635  
*Caiman yacare* 155  
*Calabaria reinhardtii* 208, 346  
*Calamaria*  
   *gervaisii* 346  
   *leucogaster* 346  
   *linnaei* 346  
   *pavimentata* 346  
   *schlegelii* 346  
   *septentrionalis* 346  
*Calloselasma rhodostoma* 346  
*Callosobruchus maculatus* 284  
*Calumma* 711–734  
   aff. *brevicorne* 723  
   aff. *malthe* 726  
   *amber* 713, 715–717, 719, 731–732  
   *brevicorne* 711–734  
   *b. hilleni* 711  
   *b. tsarafidy* 711–734  
   *brevicornis* 712  
   *capuroni* 711, 730–731  
   *crypticum* 713, 715–716, 718–721, 731–732  
   *cucullata* 711  
   *cucullatum* 711, 728, 730–732  
   *gastrotaenia* 730  
   *gularis* 711–712, 714–715  
   *hafahafa* 715, 726–727, 730–732  
   *hilleni* 730–731  
   *jeji* 715, 721–723, 731–732  
   *malthe* 711, 724, 726–727, 730–732  
   *nasuta* 730  
   *peltiorum* 715, 721, 723–727, 731–732  
   *tsaratananense* 711, 721–722, 730–732  
   *tsycorne* 715, 728–732  
  
*Calyptommat*  
   *leiolepis* 401  
   *nicterus* 401  
   *sinebrachiatus* 401  
*Campostoma anomalum* 699  
*Candoia*  
   *aspera* 346  
   *bibroni australis* 346  
   *carinata* 346  
   *paulsoni* 208, 212, 214  
   sp. 346  
*Cantoria violacea* 346  
*Carapidae* 122–128  
*Carapini* 122–123  
*Carapus*  
   *acus* 122–123, 124–125  
   *bermudensis* 122, 125  
   *boraborensis* 122–124, 126  
   *dubius* 122–123, 126  
   *homei* 122–124, 126  
   *mourlani* 122–128  
   *sluiteri* 122  
*Carassius auratus* 438  
*Carex* 743, 749  
*Carlasyanax* 636  
*Carphophis*  
   *amoenus* 346  
   *vermis* 346  
*Carya ovata* 645  
*Caudacaecilia* 256–260  
   *asplenia* 256–260  
   *larutensis* 256  
   *nigrolava* 256–258  
   *paucidentula* 256–258  
   *weberi* 256  
*Caudata* 188  
*Causus*  
   *defilippii* 110, 346  
   *resimus* 346  
   *rhombeatus* 346  
*Cemophora*  
   *coccinea* 346  
   *c. lineri* 318  
*Centriscidae* 326  
*Centrisciformes* 326  
*Centroberyx affinis*  
*Centrolenella* 834  
*Centrolenidae* 194  
*Centromochlinae* 169  
*Centrophryne* 404  
   *gladisfenae* 404, 408  
   *spinulosa* 404  
*Centrophrynidae* 404  
*Cerastes*  
   *cerastes* 346  
   *vipera* 346  
*Ceratioidei* 404–411  
*Ceratobranchia* 635  
*Ceratosuchus burdoshi* 151  
*Cerberus rhynchops* 346  
*Cercosaura*

- argulus* 401  
*dicra* 401  
*eigenmanni* 401  
*manicata* 401  
*ocellata* 401  
*oshaughnessyi* 401  
*parkeri* 401  
*quadrilineatus* 401  
*schreibersi* 401  
*vertebralis* 401  
*Cerrophidion*  
*barbouri* 346  
*godmani* 346  
Chacidae 176  
*Chaenophryne draco* 410  
*Chaetostoma* 60–67  
(Ancistrus) 61  
*branickii* 63, 65–66  
*breve* 60–62  
*carioni* 60–62  
*changae* 61–66  
*cirrhosus* var. *maculata* 61  
*dermorhynchum* 60–62  
*greeni* 61, 63  
*lineopunctatum* 63, 65–66  
*loborhynchos* 63, 66  
*maculatus* 61  
*marcapatae* 63, 66  
*marmorensis* 63  
*mollinasum* 63  
*sericeum* 63, 66  
*taczanowskii* 63  
*Chamaeleo dilepis* 662  
Chamaeleonidae 711–734  
*Chamaesaura anguina* 662–663  
*Channa* 327  
Channidae 327  
Channoidei 327  
*Chanos chanos* 559–560  
*Chara vulgaris* 479  
Characidae 529–534, 630–639  
Characiformes 89–95, 516–534, 630–639  
*Charina bottae* 346  
Chaudhuriidae 327  
Chaunacidae 120–121  
Chaunacoidei 120–121  
*Chaunacops* 120–121  
*Chaunax coloratus* 120–121  
Chelaethiops  
*bibie* 376  
*elongatus* 376  
Cheliferidae 295  
*Chelydra serpentina* 284, 769–777  
*Cherokia georgiana* 645  
*Chilomeniscus stramineus* 346  
*Chilomycterus reticulatus* 560–561  
Chilopoda 465  
Chilorhinophis  
*carpenteri* 346  
sp. 110  
Chironius  
*carinatus* 346  
*exoletus* 346  
*fuscus* 346  
Chironomidae 35, 606–607  
Chondrichthyes 324–325  
Chondrostei 325  
*Choriaster granulatus* 126  
*Chrisemys picta* 479  
*Chrysopelea*  
*ornata* 346  
*paradisi* 346  
*petias* 346  
sp. 346  
Cicadellidae 293–300  
Cichlasoma  
*breidohri* 560–561  
*deppii* 559  
Cichlidae 289–292  
Cicindelidae 295  
Cladistia 324  
Cladocera 37  
*Clapia virginica* 610  
*Clarias* 552  
*Clelia clelia* 346  
*Clemmydopsis* cf. *turnauensis*  
*Clemmys guttata* 281–288  
*Clethrionomys* 181–187  
*gapperi* 183  
*Clidastes propyphon* 345  
*Clonophis kirtlandii* 346  
*Cnemidophorus* 14–26, 467  
*lemniscatus* 14–26  
*marmoratus* 16  
*mumbuca* 463–468  
*septemvittatus* 21  
*sexlineata* 15  
*tesselata* 15  
*tesselatus* 15–16, 20–21  
*tigris* 15  
*Cnesterodon* 620  
*carnegiei* 620  
*omorgmatus* 620  
*Cobitiglanis* 198  
*Cobitis* 331  
*Cochranella* 834  
Coleoptera 34–35, 270, 295, 465, 607  
*Colobodactylus*  
*dalcyanus* 401  
*taunayi* 401  
*Colobosaura modesta* 401, 463–467  
*Coluber* 650  
*constrictor* 213, 346, 548  
*c. flaviventris* 346  
*c. florulentus* 346  
*c. gemonensis* 346  
*c. hippocrepis* 346  
*c. jugalaris* 346  
*ravergieri* 346  
*rhoorhachis* 346  
*rogersi* 346  
*rubriceps* 346

- spinalis* 346  
*ventromaculatus* 346  
*viridiflavus* 346  
 sp. 346  
 Colubridae 108, 212, 650–664, 818  
 Colubrinae 650  
 Conchostraca 35  
*Coniophanes fissidens fissidens* 346  
*Conophis*  
   *lineatus* 346  
   sp. 346  
*Conopsis*  
   *lineata lineata* 346  
   *nasus* 346  
   sp. 346  
 Copepoda 37  
*Copionodon*  
   *orthiocarinatus* 204  
   *pecten* 204  
 Copionodontinae 203–204  
 Cophomantini 789  
*Corallus*  
   *caninus* 346  
   *cooki* 346  
   *hortulanus enhydriis* 346  
*Corbicula* 268–273  
   *fluminea* 606–607  
 Cordulogasteridae 278  
*Cordylancistrus* 60  
 Cordylidae 108  
*Cordylus* 108  
*Coregonus*  
   *canadensis* 310  
   *huntsmani* 310  
   *pollan* 310  
 Cornaceae 645  
*Cornufer* 83  
*Coronella*  
   *austriaca* 346  
   *a. austriaca* 346  
*Corydoras tukano* 634  
*Corynopoma riisei* 531  
*Coryphopterus* 323  
*Cosymbotus platyrus* 6  
 Cottidae 792–796  
*Cottus caroliniae* 610  
*Cranophryne* 558  
*Cranopsis* 558  
   *fastidiosus* 558  
*Creagrutus* 60, 635  
*Crocidura*  
   *occidentalis* 664  
   sp. 110, 663  
*Crocodylus* 149–158  
   *acer* 155  
   *acutus* 153, 155  
   *affinis* 155  
   *cataphractus* 152, 155  
   *intermedius* 155  
   *johnstoni* 155  
   *megarhinus* 155–156  
   *mindorensis* 155  
   *moreletii* 155  
   *niloticus* 150, 154–155  
   *novaeguineae* 155  
   *palaeindicus* 153, 155–156  
   *palustris* 155  
   *pigotti* 149–150, 155–156  
   *porosus* 155  
   *rhombifer* 152, 155  
   *robustus* 151–156  
   *siamensis* 152, 154–155  
*Crossocheilus* 101  
   *reticulatus* 101  
*Crotalus* 185  
   *adamanteus* 346  
   *atrox* 185, 347, 819–822  
   *basilicus* 347  
   *cerastes* 185, 347, 548  
   *durissus terrificus* 347  
   *horridus* 181–187, 347, 819–822  
   *lepidus* 185, 347  
   *l. klauberi* 347  
   *l. lepidus* 347  
   *mittchelli pyrrhus* 347  
   *molossus* 185, 347  
   *m. molossus* 347  
   *ruber* 347  
   *scutulatus* 347  
   *tigris* 185  
   *viridis* 347  
   *v. helleri* 347  
   *v. oreganus* 347  
*Crotaphopeltis hotamboeia* 108, 110–111, 347  
*Crotaphytus* 220, 301–302  
   *antiquus* 301–306  
   *collaris* 216–224, 301–302, 338  
 Crustacea 607  
*Cryothenia*  
   *amphitreta* 752–759  
   *peninsulæ* 752–759  
*Ctenopoma muriei* 552  
*Ctenosaurus similis* 537  
*Culcita*  
   *novaeaguineae* 122, 126  
   *scmidelliana* 122, 126  
   sp. 122  
 Curculionidae 295  
*Cyanocharax* 635  
*Cyclophiops major* 347  
 Cyliodrophidae 212  
*Cylindrophis*  
   *maculatus* 209  
   *rufus* 208–210, 212  
   *rufus* 212  
*Cyclopsella querna* 560–561  
*Cylindrophis*  
   *maculatus* 347  
   *rufus* 347  
*Cyprinella* 559  
 Cyprinidae 96–102, 321, 370–377, 423–430, 552, 697  
 Cypriniformes 423–430

- Cyprinodon*  
*inmemoriam* 560  
*longidorsalis* 560  
*veronicae* 560  
 Cyprinodontidae 244–255, 472–477  
 Cyprinodontiformes 244, 613–622  
*Cyprinus* 559  
*carpio* 556  
*Cypselurus* 328  
  
*Daboia russelii* 347  
*Dactyloscopus pectoralis* 560–561  
*Dactyloscopus* 561  
 Dalatiidae 559  
*Dalophia*  
*longicauda* 111  
*pistillim* 111  
*Danio*  
*albolineatus* 376  
*malabaricus* 376  
*rerio* 556  
*Dasyptellus*  
*fasciata* 347  
*scabra* 347  
*Deinagkistrodon acutus* 347  
*Demansia* 650  
*Dendrelaphis pictus* 347  
*Dendroaspis*  
*angusticeps* 347  
*jamesoni* 347  
*polylepis* 663  
*viridis* 347  
 sp. 347  
*Dendrobates* 623–629  
*auratus* 623, 625–626  
*azureus* 623–629  
*galactonotus* 623  
*imitator* 625  
*leucomelas* 623, 625–626  
*machadoi* 623–629  
*nubeculosus* 623  
*pumilio* 625  
 sp. aff. *azureus* 625–626  
*sylvaticus* 625  
*tinctorius* 623–629  
*truncatus* 623  
 Dendrobatidae 623–629  
*Dendrophidion brunneus* 347  
 Dermaptera 465  
 Deuterodon 636  
*Diadophis*  
*punctatus* 347  
*p. arnyi* 347  
*p. edwardsii* 347  
*Diarrena* 743  
 Dibamidae 212  
*Dibamus novaeguineae* 211–214  
*Dichogaster lineri* 318  
*Dinodon*  
*rufozonatum* 347  
*r. rufozonatum* 347  
  
*Diodon* 561  
*Diplocynodon darwini* 155  
 Diplopoda 465  
 Dipnoi 324  
*Dipsadoboa unicolor* 347  
*Dipsas latifrontalis* 347  
*Dipsina* 650  
*multimaculata* 650, 658  
*Dipsosaurus dorsalis* 537  
 Diptera 34, 295, 465, 606–607  
*Discocheilus* 101  
*Discogobio* 101  
*Dispholidus typus* 347  
*Dissostichus* 757  
*mauwoni* 753, 757  
 Distcidae 278  
*Distocyclus conirostris* 29, 37  
*Dixonina* 778, 781  
*Dollosuchus dixonii* 155  
*Dolopichthys gladisfenae* 404–405, 408  
*Dreissena* 268–273  
*bugensis* 268  
*polymorpha* 268  
*Dromicodryas bernieri* 347  
*Dromophis* 650  
*lineatus* 347, 651, 662  
*praeornatus* 651  
*Drymarchon*  
*corais*  
*c. couperi* 347  
*c. erebennus* 347  
*melanurus* 347  
*Drymobius margaritiferus* 347  
*Dryophiops rubescens* 347  
*Drysdalia coronoides* 347  
*Duellmanohyla*  
*chamulae* 789  
*ignicolor* 194, 789  
 Dytiscidae 479  
  
 Echinodermata 122–128  
*Echinosauro* 396–403  
*horrida* 401  
*palmeri* 401  
*panamaensis* 401  
*sulcarostrum* 396–401  
*Echis*  
*carinatus* 347  
*coloratus* 347  
*Eclepops gaudichaudii* 400–401  
*Egernia cunninghami* 537  
*Eigenmannia* 27–42  
*limbata* 29, 37  
*virescens* 29, 37, 669  
*Eimeria lineri* 318  
*Eirenis rothii* 347  
*Eirenis coronelloides* 110  
*Elaphe*  
*dione* 347  
*flavirufa* 347  
*guttata* 347



- mandarina* 347  
*obsoleta* 347  
*o. obsoleta* 347  
*o. quadrivittata* 347  
*porphyracea* 347  
*quatuorlineata sauromates* 347  
*radiata* 347  
*rufodorsata* 347  
*schrenckii* 347  
*taeniura yunnanensis* 347  
*vulpina* 347  
Elapidae 103–115, 213, 650, 818  
*Elapsoidea* 104  
*boulengeri* 111  
*semiannulata* 347  
*Elassoma*  
*evergladei orlandicum* 561  
*okefenokee* 559–561  
Elassomatidae 326  
Elassomatiformes 326  
Elateridae 295  
Eleotridae 489–490  
*Eleotris* 495  
*macrolepis* 492–494  
*Eleutherodactylus* 137, 143, 595, 834  
*coqui* 86  
*peruviana* 835  
*peruvianus* 835  
sp. A 834  
sp. B 834  
sp. C 834  
sp. D 834  
sp. I 834  
sp. 2 834  
sp. 3 834  
sp. 4 834  
sp. 5 834  
sp. 6 834  
sp. 7 834  
sp. 8 834  
*Elgaria panamintina* 567  
*Elimia* 609  
sp. 605, 607  
Elopidae 779  
Elopiformes 779  
Elopomorpha 327  
*Elops hawaiiensis* 779, 781  
Emydidae 268–273  
*Emydocephalus ijimae* 347  
*Emydoidea blandingii* 284  
*Encheliophis* 125  
*gracilis* 122–123, 126  
*sagamianus* 122  
*vermicularis* 123, 126  
*Enhydrina schistosa* 347  
*Enhydris* 342, 344  
*bocourti* 347  
*chinensis* 347  
*doriae* 342, 347  
*enhydris* 347  
*plumbea* 347  
*Engystomops* 574  
*Ensatina* 567  
*eschscholtzii* 567  
*e. xanthoptica* 567  
*Entomocorus* 176, 412–422  
*benjamini* 412–422  
*gameri* 412–422  
*melaphareus* 412–422  
*radius* 412–422  
*Epalzeorhynchus* 101  
*bicornis* 101  
*Epapterus* 413  
*dispiturus* 421  
*Ephalophis greyi* 347  
Ephemeroptera 34–35, 606–607  
*Epicrates*  
*angulifer* 347  
*cenchria* 347  
*c. maurus* 347  
sp. 347  
*striatus* 347  
*Eptatretus*  
*carlhubbsi* 225–226, 228  
*carribeaus* 227–228  
*cirratus* 225–228  
*eos* 227  
*goliath* 225–229  
*laurahubbsae* 225–228  
*menezesi* 227–228  
*strahani* 225–228  
*Equula longispinis* 542  
*Eremophilus mutisii* 204  
*Eretmodus cyanostictus* 739  
*Erimyzon succetta* 610  
*Eristicophis macmahoni* 347  
*Erotelis* 495  
*Erpeton tentaculatum* 347  
Erythrinidae 516–528  
*Erythrinus* 516  
*macrodon* 516, 522–523  
*Erythrolamprus aesculapii* 347  
*Eryx*  
*colubrinus colubrinus* 209  
*jaculus* 347  
*johnii* 347  
*Esox* 578  
*lucius* 556  
*Etheostoma* 321  
*acuticeps* 591  
*aquali* 590  
*blennioides* 609–610  
*boschungii* 590  
*caeruleum* 609–610  
*(Catonotus)* 321  
*cinereum* 585, 592  
*cragini* 610  
*denoncourti* 591  
*exile* 610  
*flabellare* 609–610  
*fricksium* 610  
*kennicotti* 610

- luteovinctum* 590  
*microperca* 610  
*nigrum* 609–610  
*nuchale* 610  
*(Oligocephalus)* 321–322  
*olivaceum* 610  
*olmstedii* 610  
*pseudovulatum* 590  
*rufilineatum* 610  
*sellare* 609  
*serriifer* 610  
*sp. cf. cinereum* 590  
*sp. cf. simoterum* 590  
*sp. cf. stigmaeum* 590  
*squamiceps* 610  
*striatulum* 590  
*tuscumbia* 610  
*uniporum* 560–561  
 Etheostominae 604  
 Etmopteridae 559  
*Eumeces elegans* 298  
*Eumecia anchietae* 663  
 Eunectes  
     *murinus* 208, 212, 214, 347  
     *m. gigas* 347  
     *notaeus* 347  
*Euprotomiscus bispinatus* 559–560  
*Eurycea* 767  
*Euspondylus*  
     *acutirostris* 401  
     *guentheri* 401  
     *maculatus* 401  
     *rahmi* 401  
     *simonsii* 401  
     *spinalis* 401  
*Euthecodon arambourgi* 155  
 Fagaceae 645  
 Farancia  
     *abacura* 347  
     *a. abacura* 347  
     *erytrogramma* 347  
 Ferrisia sp. 610  
*Ficimia publia* 347  
*Fimbrios klossi* 347  
*Fluviophylax obscurus* 614–616  
 Formicidae 295, 465  
*Fouquieria splendens* 302  
 Fundulus  
     *albolineatus* 321  
     *grandis* 556  
     *heteroclitus* 441  
     *jenkinsi* 560  
     *julisiae* 590  
     *notatus* 699  
     *pulvereus* 560  
*Fusigobius* 323  
 Gadidae 116–119  
 Gadiformes 116–119  
*Gambusia* 351–352, 354–355, 357  
     *affinis* 351–359, 438  
     *heterochir* 351–359  
     *holbrooki* 250, 640, 645  
 Ganoidei 325  
*Garra* 101  
*Garrina* 101  
 Gasterosteidae 326  
 Gasterosteiformes 326–327  
 Gasterosteomorpha 326–327  
 Gasterosteomorphas 326  
 Gastropoda 465, 607  
*Gastrotheca* 595–603  
     *antonia* 601–602  
     *argenteovirens* 601  
     *atympana* 595, 601–602  
     *aureomaculata* 596, 602  
     *bufona* 601–602  
     *cariniceps* 596–602  
     *ceratophrys* 601  
     *cornuta* 595–603  
     *galeata* 601  
     *griswoldi* 601–602  
     *guentheri* 601  
     *lateonota* 601–602  
     *longipes* 596, 602  
     *marsupiala* 601  
     *monticola* 596, 601–602  
     *orophylax* 596, 602  
     *pacchamama* 601  
     *peruana* 601–602  
     *plumbea* 596, 601–602  
     *rebecca* 601  
     *riobambae* 601  
     *stictopleura* 595, 600, 602  
     *testudinea* 603  
     *walkeri* 601–602  
     *williamsoni* 602  
     *zeugocystis* 595, 601–603  
 Gavialis  
     *gangeticus* 155  
 Gavialoidea 155  
*Gavialosuchus americanus* 155  
 Gekko  
     *hokouensis* 6, 295–296  
     *smithii* 207, 209–210, 212–213  
 Gekkonidae 212, 295, 658  
 Gekkota 467  
*Gelanoglanis* 169  
 Geophaginae 385  
*Geophagus* 385  
     *grammepareius* 393  
*Geophis semidoliatus* 347  
*Gephyrocharax* 635  
*Gerrbillurus paeba* 108  
*Gerrhosaurus flavigularis* 110  
 Glanapteryginae 202  
*Glandulocauda melanopleura* 620  
 Glandulocaudinae 635  
*Glaucomys volans* 183  
*Gloydus*  
     *saxatilis* 347

- shedaensis* 184, 265  
*strauchi* 347  
*Gnathostoma* 321, 325  
*Gobiidae* 323  
*Gobioidei* 10–13, 489–499  
*Gongylophis*  
   *colubrinus* 347  
   *c. colubrinus* 347  
*Gonyosoma frenatum* 347  
*Copherus*  
   *agassizii* 129–136  
   *polyphemus* 68–76, 129–136  
*Graptomys* 268–273  
   *caglei* 268  
   *geographica* 268–273  
   *pseudogeographica* 268  
   *versa* 268  
*Grayia smythii* 347  
*Gryllidae* 295  
*Gryllidae* 465  
*Gryllotalpidae* 465  
*Guianacara* 384–395  
   *cayumii* 384–395  
   (*Guianacara*) 384–395  
   *geayi* 384–395  
   (*Oelemaria*) 384–395  
   *oelemariensis* 384–395  
   *ouroeufi* 384–395  
   sp. 390  
   *sphenozona* 384–395  
   *stergiosi* 384–395  
*Guozdarus* 756–757  
*Gymnacanthus* 561  
*Gymneleotris*  
   *seminuda* 560–561  
   *seminudus* 561  
*Gymnocanthus galeatus* 560–561  
*Gymnocerata* 295  
*Gymnodactylus carvalhoi* 462–468  
*Gymnodraco acuticeps* 758  
*Gymnophiona* 256–260  
*Gymnophthalmidae* 460, 467  
*Gymnophthalmus*  
   *cryptus* 401  
   *leucomystax* 401  
   *lineatus* 401  
   *luetkeni* 401  
   *pleei* 401  
   *speciosus* 400–401  
   *underwoodi* 401  
*Gymnotiformes* 27–42, 665–673, 826–833  
*Gymnotus carapo* 669, 671  
*Gyrinocheilus*  
   *pellegrini* 100  
   *roulei* 100  
  
*Haemomaster* 202–203  
   *venezuelae* 204  
*Halimeda* 10–11  
*Hapsidophrys*  
   *lineatus* 347  
   *smaragdina* 347  
*Heleophryne regis* 625–626  
*Heliastes multiradiata* 125  
*Helicops*  
   *angulatus* 347  
   *carinicaudus* 347  
*Helicopsyche* sp. 606  
*Heliobolus spekii* 663–664  
*Helisoma* sp. 609–610  
*Heloderma*  
   *horridum* 317, 345  
   sp. 345  
   *suspectum* 345  
*Helostomatidae* 327  
*Hemibrycon* 635  
*Hemidactylus*  
   *frenatus* 6, 295  
   *mabouia* 662  
   *platycephalus* 662  
   *turcicus* 6, 318  
*Hemilepidotus spinosus* 560–561  
*Hemiptera* 295, 465, 607  
*Hemirhagerris* 650–651, 659  
   *kelleri* 658  
*Henicorhynchus* 101  
*Henonemus* 198–205  
   *intermedius* 198, 204  
   *macrops* 198–199  
   *punctatus* 198–199, 203–204  
   sp. 204  
   *taxistigmus* 198–199, 201, 203–204  
   *triacanthopomus* 198–205  
*Heterodactylus*  
   *imbricatus* 401  
   *lundii* 401  
*Heterodon*  
   *nasicus* 347  
   *platirrhinus* 347  
   *simus* 347  
*Hippocampus angustus* 739  
*Hippoglossus stenolepis* 81  
*Hipposcorpaena* 507  
*Hirundichthys* 328  
*Holodactylus africanus* 662  
*Holothuroidea* 122–128  
*Homalopsis buccata* 347  
*Homodiaetus* 198, 203  
   *anisitsi* 203–204  
*Homoptera* 295, 465  
*Homoroselaps lacteus* 347  
*Hoplerythrinus* 516  
*Hoplias* 516–519, 522–523  
   *aimara* 516–528  
   *brasiliensis* 519  
   *lacerdae* 516, 519  
   *macrophthalmus* 516–528  
   *malabaricus* 516–519, 523–525  
   *m. macrophthalmus* 518  
   *m. microphthalmus* 517  
   *m. var. macrophthalma* 517  
*Hoplocephalus*

- bitorquatus* 347  
*bungaroides* 548–549, 803–809  
*Hybopsis dorsalis* 423  
 Hydrobiidae 610  
 Hydrodynastes  
   *bicinctus* 347  
   *gigas* 347  
*Hydromantes* 567  
 Hydrophiidae 818  
 Hydrophis  
   *belcheri* 347  
   *brooki* 347  
   *coggeri* 347  
   *cyanocinctus* 347  
   *elegans* 347  
   *fasciatus* 347  
   *klossi* 347  
   *lapemoides* 347  
   *melanosoma* 347  
   *ornatus* 347  
   sp. 347  
   *torquatus* 347  
 Hyla 578  
   *alboguttata* 785  
   *arborea* 785  
   *calypsa* 194  
   *chloroslea* 785–791  
   *cinerea* 785  
   *colymba* 194  
   *cyclada* 194  
   *debilis* 194  
   *eximia* 785  
   *femorialis* 785  
   *helenae* 785  
   *inframaculata* 785  
   *imitator* 785  
   *lancasteri* 194  
   *melanomma* 194  
   *nephila* 194  
   *pentheter* 194  
   *sabrina* 194  
   sp. 194  
   *sumichrasti* 194  
   *uranochroa* 194  
   *versicolor* 785  
   *vigilans* 785  
   *warreni* 785  
*Hylaeochampsia vectiana* 149, 155  
 Hylidae 194, 595–603, 785–791  
 Hylineae 785  
 Hylini 789  
*Hyloides* 558  
*Hyloscirtus* 785–791  
   *armata* 785  
   *armatus* 785–791  
   *bogotensis* 785–791  
   *charazani* 787–790  
   *chlorosteus* 788–790  
   *colymba* 789  
   *jahni* 790  
   *larinopygion* 786, 788–790  
   *palmeri* 789  
   *panostictus* 789  
   *simmonsii* 789  
   *tapichalaca* 789  
 Hymenoptera 295, 465  
*Hyperolius* sp. 663  
*Hyphessobrycon negodagua* 636  
*Hypnale hypnale* 347  
*Hypobrycon* 635  
   *leptorhynchus* 636  
   *maromba* 636  
 Hypopomidae 665–673, 826  
*Hypopomus* 665, 670  
 Hypoptychidae 326  
*Hypoptychus* 326  
*Hypsiboas* 789  
   *albopunctatus* 789  
   *benitezi* 789  
   *cinerascens* 789  
   *heilprini* 789  
   *punctatus* 789  
*Ichnotropis* 108  
   *squamulosa* 108  
 Ichthyophiidae 256–260  
*Ichthyophis* 256–260  
   *beddomei* 256  
   *glutinosus* 256, 259  
   *kohtaoensis* 256, 259  
   *orthoplicatus* 256, 259  
 Ictaluridae 378–383  
*Ictalurus*  
   *furcatus* 610  
   *punctatus* 610, 735–741  
*Iguana iguana* 462–464, 466  
*Iguania* 466–467, 469  
*Imantodes*  
   *cenchoa* 347  
   *tennissimus* 347  
*Inpaichthys kerri* 636  
 Insecta 607  
*Iphisa elegans* 401  
 Isoptera 465  
*Isostichopus fuscus* 122–128  
*Japalura*  
   *brevipes* 298  
   *swinhonis* 296  
*Jenynsia* 613–622  
   *alternimaculata* 615–616  
   *diphyes* 614–617, 619–620  
   *eigenmanni* 614–617, 619–620  
   *eirmostigma* 615–617, 619–620  
   (*Jenynsia*) 613  
   *lineata* 615–616, 620  
   *maculata* 615–616  
   *microlepis* 615  
   *multidentata* 615–616, 619–620  
   *onca* 613, 615  
   (*Plesiojenynsia*) 613–622  
   *pygogramma* 615–616

- sanctaecatarinae* 615–616  
*tucumana* 613, 615–616  
*unitaenia* 615–616, 619–621  
*weitzmani* 613, 615–616, 619–621  
 Juglandaceae 645  
*Juncus* 743, 749  
*Jupiaba poekotero* 634–635  
*Justicia americana* 545  
  
*Kambara implexidens* 155  
*Kassina senegalensis* 663–664  
*Kentisuchus spenceri* 155  
*Kentropyx* 467  
*Kerilia jerdonii* 347  
*Knodus* 630–639  
   *albolineatus* 637  
   *breviceps* 637  
   *calliurus* 637  
   *caquetae* 637  
   *chapadae* 633, 637  
   *delta* 633, 637  
   *gamma* 637  
   *geryi* 633, 636–637  
   *heteresthes* 637  
   *hypopterus* 633, 637  
   *jacunda* 637  
   *meridae* 630–631, 635, 637  
   *mizquae* 637  
   *moenkhausii* 637  
   *orteguae* 637  
   *pectinatus* 636  
   *savannensis* 633, 637  
   *septentrionales* 637  
   *smithi* 633, 637  
   *sp. 1* 630  
   *tiquiensis* 630–639  
   *victoriae* 637  
*Koumansetta* 322  
   *rainfordi* 322  
*Kyphosus*  
   *sectator* 561  
   *sectatrix* 560–561  
  
*Labeo* 101  
   *diplostomus* 100  
   *rendahli* 100  
*Labcones* 101  
*Labconina* 101  
*Labeotropheus* 290  
   *fuellborni* 289–292  
   *trewavasae* 289–292  
*Labidesthes sicculus* 531  
*Labiobarbus* 101  
*Labridae* 323  
*Labroides* 325, 327  
*Labyrinthici* 327  
*Lacerta monticola* 220  
*Lacertidae* 108, 110, 658  
*Lachesis muta* 184, 347  
*Lampropeltis*  
   *alterna* 348  
   *getula*  
     *g. californiae* 348  
     *g. holbrooki* 348  
     *g. splendida* 348  
   *triangulum* 797–802  
   *t. elapsoides* 348  
   *t. hondurensis* 348  
   *t. polyzona* 348  
   *t. triangulum* 348  
*Lamprophiinae* 650  
*Lamprophis*  
   *fuliginosus* 348  
   *lineatus* 348  
   *olivaceus* 348  
*Lanthanotus* 342  
   *borneensis* 345  
*Lapemis curtus* 348  
*Larrea tridentata* 302  
*Latastia*  
   *johnstoni* 110  
   *longicauda revoili* 662–663  
*Laticauda*  
   *colubrina* 348  
   *laticaudata* 348  
   *semifasciatus* 348  
*Leggata b. vicina* 110  
*Leidyosuchus canadensis* 155  
*Leimadophis* 650  
*Leiognathidae* 539–543  
*Leiognathus*  
   *(Aurigequula)* 542  
   *equulus* 539  
   *fasciatus* 539, 542  
   *longispinis* 539–543  
   *n. sp.* 542  
   *smithursti* 539–543  
   *sp.* 542  
*Leiolopisma*  
   *smithii* 537  
   *zealandica* 537  
*Leiopython albertisi* 348  
*Lemna* 270  
   *minor* 645  
*Lemnaceae* 645  
*Lemniscomys*  
   *griselda* 663  
   *striatus massaicus* 662  
*Lepidophyma flavimaculatum lineri* 318  
*Lepidoptera* 295, 465  
*Lepomis* 479, 486, 705  
   *cyanelus* 699  
   *gibbosus* 481, 610  
   *macrochirus* 431, 442, 640, 645, 699  
   *megalotis* 699  
   *microlophus* 610  
*Leposoma*  
   *guianense* 401  
   *hexalepis* 401  
   *parietale* 401  
   *percarinatum* 401  
   *rugiceps* 400–401

- scincoides* 401  
*southi* 401  
*Leptocypris* 370–377  
   *lujae* 370–377  
   *modestus* 370–377  
   *niloticus* 376  
   *weeksii* 370–377  
   *weynsii* 370–377  
*Leptodeira*  
   *maculata* 348  
   *septentrionalis polysticta* 348  
*Leptomicrurus narducci* 348  
*Leptophilypnus* 489–499  
   *fluvialilis* 489–499  
   *guatemalensis* 492–494, 496–498  
   *panamaensis* 489–499  
*Leptophis*  
   *ahaetulla* 348  
   *mexicanus* 348  
*Leptosiaphos kilimensis* 111  
*Leptotyphlopidae* 108  
*Leptotyphlops*  
   *conjunctus* 110  
   *distantii* 110  
   *scutifrons* 108  
*Leptoxis*  
   sp. 610  
   *subglobosa* 608  
*Lepturophis borneensis* 348  
*Leucichthys* 310  
*Lialis jicari* 211–213  
*Libellula* 479  
*Lichanura trivirgata roseofusca* 348  
*Limnophis bicolor* 348  
*Linichthys* 96–102  
*Lioheterodon madagascariensis* 348  
*Liophis* 650  
   *epinephelus* 348  
   *miliaris* 348  
   *poecilogyris* 348  
*Liopholidophis lateralis* 348  
*Liparis micraspidophorus* 560–561  
*Liquidambar styraciflua* 645  
*Liriodendron tulipifera* 645  
*Litoria*  
   *caerulea* 84  
   *chloris* 84  
   *citropa* 789  
   *davissae* 789  
   *sublandulosa* 789  
*Lobocheilus* 101  
*Loligo opalescens* 438  
*Lophiiformes* 120–121, 404–411  
*Lophodolus* 410  
*Lophuromys* sp. 664  
*Loricariidae* 60–67  
*Loveridgea ionidesi* 110–111  
*Loxocemidae* 212  
   *Loxocemus bicolor* 208, 212, 214  
*Ludwigia peploides* 545  
*Lutra canadensis* 285  
*Luxilus coccogenis* 590  
*Lycodes*  
   *adolphi* 80  
   *akuugun* 77–82  
   *brevipes* 77–82  
   *brunneofasciatus* 77–78, 80–81  
   *caudimaculatus* 78, 81  
   *concolor* 77–82  
   *diapterus* 77–82  
   *frigidus* 78, 80  
   *gracilis* 78, 80  
   *hubbsi* 78, 80–81  
   *microporus* 78, 81  
   *nakamurae* 78, 80–81  
   *nishimurai* 78, 80  
   *obscurus* 78, 81  
   *ocellatus* 78, 81  
   *pectoralis* 78, 80, 82  
   *vahlui* 78, 80  
*Lycodinae* 77  
*Lycodon*  
   *aulicus* 348  
   *striatus* 348  
*Lycophidion*  
   *acutirostris* 111  
   *capense* 108–111  
   *c. vermiculatum* 348  
   *depressirostre* 111  
*Lygodactylus*  
   *angolensis* 662  
   *capensis* 662  
   *klugei* 6  
   *picturatus* 662  
*Lygosoma sundevallii* 110, 662, 664  
*Lystrophis*  
   *dorbignyi* 348  
   *semicinctus* 348  
*Lythrum salicaria* 743  
*Lytorthynchus*  
   *diadema* 348  
   *maynardi* 348  
*Mabuya* 293, 297–298, 469, 659  
   *agilis* 297  
   *caissara* 297–298  
   *capensis* 297  
   *cumingi* 297  
   *frenata* 297  
   *heathi* 297, 463–469  
   *longicaudata* 293–300  
   *mabouya* 297  
   *macrorhyncha* 297  
   *multicarinata* 295, 297  
   *nigropunctata* 297, 463–469  
   *striata*  
     *s. punctatissima* 297  
     *s. striata* 297  
*Macrelaps* 103–115  
   *microlepidotus* 104–108, 111–113  
*Macrocalamus lateralis* 348  
*Macrodon* 516

- aimara* 516–517, 522–523  
*malabaricus* var. *macrophthalma* 516–517, 523  
*Macropholidus ruthveni* 401  
*Macropisthodon rudis* 348  
*Macrorhamphosa* 327  
*Macrovipera*  
   *lebetina* 348  
   *schweizeri* 265  
 Magnoliaceae 645  
*Malacoglanis gelatinosus* 202  
*Malpolon* 650–651  
   *moilensis* 348  
   *monspeulanus* 348, 651, 659  
 Mantidae 295  
 Mantodea 295  
 Mantoidea 465  
 Mastacembelidae 326  
*Masticophis* 650  
   *flagellum* 348  
   f. *flagellum* 348  
   *flavigularis flavigularis* 348  
   *schotti* 348  
   sp. 348  
*Mastigodryas*  
   *bifossatus* 348  
   *heathii* 348  
*Maulisia* 408  
*Maxillicosta* 445–459  
   *meridianus* 445–459  
     *scabriceps* 452, 456, 458  
     *whitleyi* 445–459  
*Megalocentor* 198–205  
   *echthrus* 204  
*Mehelya*  
   *capensis* 348  
   *nyassae* 110  
   *poensis* 348  
*Meizodon*  
   *semiornata* 110  
   sp. 110  
 Mekosuchinae 155  
*Mekosuchus* 156  
*Melanochromis auratus* 289–292  
*Menidia* 431–436  
   *conchorum* 434  
   *menidia* 431–436  
   *peninsulae* 431–436  
*Merops suborbitalis* 663  
*Merops breweri* 662  
*Metriaclima zebra* 289–292  
*Micrablepharus maximiliani* 401, 463–468  
*Microcephalalophis gracilis* 348  
*Microleotris* 490  
   *mindii* 490, 496–497  
   *panamensis* 490, 492, 497  
*Microgenys* 635  
*Microlophus albemarlensis* 220  
*Microphilypnus* 489–499  
   *amazonicus* 489–499  
   *macrostoma* 489–499  
   sp. 498  
   *ternetzi* 489–499  
*Micropterus* 698, 703  
   *punctulatus* 698  
   *salmoides* 437–444, 698, 739  
*Microtus* 181–187  
   *pennsylvanicus* 183  
*Micruroides euryxanthus* 348  
*Micrurus*  
   *fulvius* 348  
   f. *fulvius* 348  
   *nigrocinctus* 348  
   sp. 348  
   *spixii princeps* 348  
*Mimagoniates* 635  
*Mimophis* 650–651  
*Mochlus fernandi* 663  
*Moenkhausia lepidura hasemani* 637  
 Mollusca 607  
*Monolene maculipinna* 560–561  
*Monopeltis* 108  
   *anchietae* 108  
   *capensis* 108, 111  
   *maurecei* 111  
   sp. 111  
*Monotocheiroidon* 529–534, 635  
   *pearsoni* 529–534  
   sp. 529–532  
*Montatheris hindii* 348  
*Morelia*  
   *amethystina* 348  
   *spilota* 348  
   *viridis* 348  
*Moxostoma*  
   *carinatum* 610  
   *lacerum* 321, 610  
*Mugilomorpha* 326  
*Mus*  
   *minutoides* 110  
   *musculus* 663  
   sp. 110  
   *triton* 664  
*Mustela frenata* 183, 185  
*Myctophiformes* 324  
*Myriophyllum* 270  
*Myxinidae* 225–229  
  
*Naja*  
   *annulifera* 663  
   *atra* 348  
   *kaouthia* 348  
   *naja* 348  
   *nigricollis* 348  
   *nivea* 348  
   sp. 348  
*Nandidae* 327  
*Narcine bancroftii* 559  
*Natriceres* sp. 663  
*Natriciteres*  
   *olivacea* 110  
   sp. 110  
*Natrix*

- natrix* 266, 348  
*tessellata* 348  
*Nemamyxine elongata* 227–228  
 Nematogenyidae 204  
*Nematogenys* 204  
*Neomerinthe* 367–368  
*Neomyxine biniplicata* 227–228  
*Neosebastes* 445  
 Neosebastidae 445–459  
*Neoteleostei* 325  
*Nerodia*  
   *cyclopion* 348  
   *erythrogaster* 348  
   *e. transversa* 348  
   *fasciata* 348  
   *f. pisciventr* 348  
   *floridiana* 348  
   *rhombifer* 348  
   *rhombifera* 109  
   *sipedon* 348, 544–551  
   *s. sipedon* 348  
   *sp.* 348  
   *taxispilota* 348  
*Nerophis ophidion* 739  
 Neuroptera 465  
*Neusterothis variegatus* 348  
*Neusticurus* 396–403  
   *bicarinatus* 401  
   *ecpleopus* 401  
   *racenisi* 401–402  
   *rudis* 401–402  
   *strangulatus* 401  
   *tatei* 402  
*Ninia sebae* 348  
*Norops sagrei* 265–266  
*Notechis*  
   *ater* 266  
   *scutatus* 348  
*Nothobachia ablephara* 402  
 Notonectidae 278, 479  
*Notothenia* 757  
   *rossii* 758  
 Nototheniinae 757  
 Notothenioidae 752–759  
*Notthalmus viridescens* 479  
*Notropis* 423–430  
   *amplamala* 423–430  
   *buccatus* 423–430  
   (*Hybopsis*) 423  
   *rupestris* 590  
*Noturus* 378–383  
   *aff. albater* 379–380  
   *baileyi* 378–383, 559–560  
   *crypticus* 378–383  
   *elegans* 378–383  
   *eleutherus* 380  
   *exilis* 380  
   *fasciatus* 378–383, 590  
   *flavater* 380  
   *flavipinnis* 380  
   *flavus* 380–381  
   *funeris* 380  
   *furiosus* 380  
   *gilberti* 380  
   *gladiator* 380  
   *gyrinus* 380–381  
   *hildebrandi* 378–383  
   *insignis* 380–381  
   *lachneri* 380  
   *leptacanthus* 380  
   *miurus* 380–381  
   *munitus* 380  
   *nocturnus* 380  
   *phaeus* 380  
   *placidus* 380  
   *sp.* 379–380  
   *stanauli* 378–383, 591  
   *stigmatosus* 380  
   *taylori* 380  
*Nucras* 108  
   *boulengeri* 663  
   *holubi* 110  
   *intertexta* 110–111  
   *ornata* 111  
   *taenioiata* 110  
*Ochmacanthus* 203  
   *alternus* 204  
   *flabelliferus* 204  
   *orinoco* 204  
   *reinhardti* 204  
*Oenomys bacchante editus* 662  
 Odonata 34, 465, 607  
*Odontoscion xanthops* 560–561  
*Odontosion* 560  
*Odontostoechus* 635  
*Oedemognathus* 826  
*Oedura lesueurii* 803–809  
 Oligochaeta 607  
*Oligodon*  
   *albocinctus* 348  
   *cyclurus* 348  
   *fasciolatus* 348  
   *formosanus* 348  
   *octolineatus* 348  
   *taeniatus* 348  
   *violaceus* 348  
*Ollotis* 558  
   *coerulescens* 558  
*Oncorhynchus*  
   *gorbuscha* 640, 645  
   *mykiss* 640, 645  
 Oneirodidae 404–411  
*Oneirodes* 404, 410  
*Opheodrys*  
   *aestivus* 348  
   *vernalis* 348  
*Ophichthus frontalis* 559–560  
*Ophiophagus hannah* 348  
*Ophisaurus harti* 211–213  
*Ophryacus undulatus* 348  
 Opilionida 465



- Opipheuter xestus* 402  
*Opisthotropis latouchi* 348  
*Opsaridium* 370–377  
   *christyi* 370–377  
   *microcephalum* 376  
   *ubangiense* 371, 376  
   *zambeze* 376  
*Opsariichthys*  
   *bidens* 376  
   *uncirostris* 376  
*Oreaster occidentalis* 125  
*Oregonichthys*  
   *crameri* 559–560  
   *kalawatseti* 559–560  
*Orestias* 472–477  
   *ascotanensis* 472, 475  
   *agassii* 472–477  
   *chungarensis* 472, 475  
   *cuvieri* 475  
   *gilsoni* 475  
   *laucaensis* 472, 475–476  
   *mulleri* 475  
   *parinacotensis* 472, 475–476  
   *piacotensis* 472–477  
*Orophis*  
   *monticola* 348  
   *okinavensis* 348  
 Orthoptera 295, 465  
 Osphronemidae 327  
 Ostariophysi 412–422, 516–528  
*Osteocephalus* 835  
*Osteochilus* 101  
*Osteoglossoidei* 325  
*Osteoglossomorpha* 327  
*Osteoglossum* 325  
*Osteolaeminae* 152–153, 155  
*Osteolaemus* 149, 151–154, 156  
   *osborni* 150, 153–154  
 Ostracoda 37, 607  
*Othomoeirodus* 635  
*Oxybelis* 265  
   *aeneus* 348  
   *argenteus* 348  
   *fulgidus* 348  
*Oxyrhabdium modestum* 348  
*Oxyrhopus*  
   *petola digitalis* 348  
   *p. sebae* 348  
*Oxyzygonectes* 613  
   *dovii* 614–616  
*Oxyzygonectinae* 614  
  
*Pachydactylus*  
   *geitje* 663  
   *punctatus* 662  
   *rugosus* 663  
   sp. 658  
*Pachyrhachis* 344  
*Pagothenia* 752, 756–757  
   *borchgrevinkii* 756, 758  
*Paleosuchus* 149, 152  
  
*Panaspis*  
   sp. 110, 662  
   *wahlbergii* 111, 662  
*Pandanus* sp. 86  
*Pantodon* 325  
*Paracanthopoma* sp. 204  
 Paralichthyidae 235–243  
*Paralichthys* 235–243  
   *brasiliensis* 236, 239–241  
   *dentatus* 240  
   *isocetes* 236, 241  
   *orbignyanus* 235–243  
   *patagonicus* 236, 240–241  
   *simulans* 237, 241  
   *s. nivosus* 237  
   *s. obscurior* 237, 241  
   *triocellatus* 236, 241  
   *tropicus* 241  
*Parapterois* 457  
*Parapteronotus hasemani* 826, 832  
*Parascorpaena* 360  
*Parasinilabeo* 101  
*Parastegophilus* 198–205  
   *maculatus* 203–204  
   sp. 204  
*Paratheraps* 561  
*Paravandellia* sp. 204  
*Paraxenisthmus* 10–11, 13  
   *cerberus* 10–13  
   *springeri* 10–13  
*Pareas margaritophorus* 348  
*Pareiodon* 198–205  
   *microps* 204  
*Parexocoetus* 328  
*Parodon* 89  
 Parodontidae 89–95  
*Pelamis platurus* 348  
*Pelobates* 578  
   *cultripes* 278  
*Pelodryadinae* 789  
*Peloropsis* 509  
   *frondosa* 509  
   *xenops* 509  
*Perca flavescens* 268  
 Percidae 585–594, 604  
 Perciformes 77–82, 516, 752–759  
*Percina* 604  
   *antesella* 604, 609  
   *aurantiaca* 588  
   *austroperca* 586, 588  
   *burtoni* 585–594  
   *caprodes* 585–586, 588, 609–610  
   *carbonaria* 586, 588  
   *evides* 588, 610  
   *(Imostoma)* 604–612  
   *jenkinsi* 588  
   *kathae* 586, 588  
   *macrocephala* 585, 588, 592  
   *macrolepidota* 586, 588  
   *(Percina)* 585–594  
   *rex* 588

- roanoka* 588  
*shumardi* 604–612  
 sp. cf. *burtoni* 590–592  
*suttkusi* 586, 588  
*tanasi* 604–612  
*uranidea* 604  
*vigil* 604, 609  
 Percomorpha 10–13, 327  
 Percopsis  
   *omiscomaycus* 423  
   *transmontanus* 423  
 Peromyscus 181–187  
   *leucopus* 183  
   *maniculatus* 183  
   sp.  
   *truei*  
 Peropis mutilatus 6  
 Petrotilapia 289–292  
   *genulutea* 290  
   *nigra* 290  
   *tridentiger*  
 Phasmodae 465  
 Philodryas  
   *chamissonis* 348  
   *elegans* 348  
   *e. rufidorsatus* 348  
   *patagoniensis* 348  
   *simonsii* 348  
 Philothamnus  
   *battersbyi* 663  
   *irregularis* 348  
   *semivariatus* 663  
 Philypnodon 489–499  
 Phimophis guianensis 348  
 Pholidichthys 325–326  
 Pholidobolus  
   *affinis* 402  
   *annectens* 402  
   *machrydei* 402  
   *montium* 402  
   *prefrontalis* 402  
 Photoplagios leuciscus 539  
 Phrynobatrachus minutus 662  
 Phrynops 595  
 Phyllodactylus  
   *lanei* 1–9  
   *marmoratus* 807  
   *tuberculosis* 265  
 Phyllorhynchus  
   *decurtatus* 348  
   *d. perkinsi* 348  
 Physalaemus pustulosus 574–575  
 Physidae 610  
 Piabarchus 635  
 Piabina 635  
 Pisces 96–102  
 Pituophis  
   *catenifer* 348  
   *deppei* 348  
   *melanoleucus* 348  
 Placocheilus 101  
 Placosoma  
   *cordylinum* 402  
   *glabellum* 402  
 Plagiopholis styani 348  
 Plagiopsetta glossa  
 Plagiostomi 324–325  
 Planorbidae 610  
 Platanaceae 645  
 Platanus occidentalis 645  
 Platecarpus sp. 345  
 Platessa orbignyana 235–243  
 Platymantis 84, 86, 674–695  
   *acrochorda* 676, 682, 688  
   *aculeodactyla* 676, 682, 688  
   *akarithyma* 674–675, 681, 687–688  
   *boulengeri* 674–675, 681, 686–688  
   *browni* 674, 676, 682, 687–688  
   cf. *mimica* 681  
   *gillardi* 674–675, 681, 686–688  
   *guppyi* 676, 682, 688, 692–695  
   *macrops* 676, 682, 688  
   *macroscelus* 674, 681–682, 686–687, 692–695  
   *magna* 674–675, 681, 687–688  
   *mamusiorum* 674–676, 681–682, 687–688, 692–695  
   *mimica* 674–675, 681, 687–688  
   *myersi* 676, 682, 689  
   *nakanaiorum* 675–681, 686–687, 692–695  
   *neckeri* 676, 682, 689, 692–695  
   *nexipus* 674–695  
   *papuensis* 689  
   *parkeri* 676, 682, 689  
   *rhizophalca* 674–675, 681, 687, 689  
   *schmidt* 674–675, 681, 686–687, 689  
   *solomonis* 676, 682, 689  
   *vitiana* 676, 682, 689  
   *vitianus* 83–88  
   *vitiensis* 83–88, 676, 682, 689, 692–695  
   *weberi* 676, 682, 689  
 Plecoptera 270  
 Plethodon 762, 764, 766–767  
   *albagula* 760–768  
   *fourchensis* 762–763, 766  
   *glutinosus* 760–768  
   *g. albagula* 760–762  
   *jordani* 762–763, 766  
   *neomexicanus* 567  
   *ouachitae* 762–763, 766  
   *shermani* 766  
 Pleuragramma 756–758  
   *antarcticum* 756–758  
 Pleuragramminae 752, 757  
 Pleurocera acuta 609  
 Pleuroceridae 605, 608, 610  
 Pleurodeles waltl 276, 278, 578  
 Pleuronectiformes 230–243  
 Plica  
   *plica* 469  
   *umbra* 469  
 Pliocercus elapoides hobartsmithi 318  
 Podarcis muralis 221  
 Poecilia

- latipinna* 556
- reticulata* 556
- Poeciliidae 614
- Poeciliinae 614
- Polemon
  - acanthias* 111–112
  - christyi* 111–112
  - collaris* 348
  - gabonensis* 111–112
  - graueri* 110, 112
- Polychrotidae 460, 467
- Polychrus acutirostris* 462–463
- Polyodon* 324–325
- Polypterus* 324–325
- Porthidium*
  - dunni* 348
  - yucatanicum* 348
- Potamites* 396–403
  - apodemus* 401–402
  - cochranae* 402
  - ecpleopus* 402
  - juruazensis* 402
  - strangulatus* 402
- Potamogeton amblyfolius* 479
- Potentilla* 743, 749
- Potomogeton* 545
- Procambarus clarkii* 274–280
- Procatopodinae 614
- Procellosaurinus*
  - erythrocerus* 402
  - tetradactylus* 402
- Proctoporus*
  - bolivianus* 402
  - guentheri* 402
  - pachyurus* 402
- Prodiplotocynodon langi* 155
- Profundulidae 614
- Profundulus labialis* 614–616
- Proscelotes mlanjensis* 663
- Protemblemaria*
  - bicirris* 561
  - bicirrus* 560–561
- Protobothrops*
  - jerdonii* 348
  - mucrosquamatus* 348
- Protopterus aethiopicus* 552
- Psammodynastes*
  - pictus* 348
  - pulverulentus* 348
- Psammophis* 650–664
  - angolensis* 110, 662
  - biseriatus* 662
  - brevirostris* 650–664
  - crucifer* 658, 662
  - elegans* 658
  - jallae* 650–664
  - leightoni* 658
  - leopardinus* 650–664
  - mossambicus* 650–664
  - namibensis* 650–664
  - notostictus* 650–664
  - occidentalis* 651, 659
  - orientalis* 663
  - phillipsi* 348, 651, 656, 658–659, 663
  - punctulatus* 656, 663
  - schokari* 348
  - sibilans* 651
  - s. sibilans* 348
  - subtaeniatus* 650–664
  - s. sudanensis* 348
  - trigrammus* 650–664
  - trinasalis* 650–664
  - zambiensis* 663
- Psammophyllax* 651–652, 654, 656–659
  - multisquamis* 651, 658, 663
  - rhombatus* 651, 658–659, 663
  - tritaeniatus* 650–664
  - variabilis* 651, 658, 663–664
- Psenes* 559
- Pseudacris* 129–144
  - crucifer* 138, 142
  - (*Hyla*) 138
  - illinoensis* 137–144
  - regilla* 138, 141–142, 194–195
  - streckeri* 137
  - triseriata* 137–144
- Pseudauchenipterus* 412
- Pseudaspis cana* 348
- Pseudechis*
  - australis* 349
  - porphyriacus* 349
- Pseudopapilio* 413
  - cucuyhensis* 421
  - hasemani* 421
- Pseudocerastes persicus* 349
- Pseudocrossocheilus* 101
- Pseudoeryx plicatilis* 349
- Pseudoeurycea galeanae* 317
- Pseudogyrinocheilus* 101
  - prochilus* 100
- Pseudonaja textilis* 349, 548
- Pseudopus apodus* 211
- Pseudorabdion*
  - collaris* 349
  - longiceps* 349
- Pseudorhombus dentatus* 236, 240
- Pseudoscorpionida* 295, 465
- Pseudostegophilus* 198–205
  - haemomyzon* 203–204
  - nemurus* 204
- Pseudotropheus*
  - cf. *elongatus* 289–292
  - elongatus* 289–292
- Pseudoxenodon macrops* 349
- Pseudoxyrhophiine* 650
- Pseustes*
  - poecilonotus* 349
  - sulfurens sulfurens* 349
- Psilophthalmus paeninosus* 402
- Ptenopus*
  - garrulus* 110
  - kochi* 658

- Pterothrissinae* 779  
*Pterothrissus gissu* 779, 781  
*Ptyas*  
   *dhumnades* 349  
   *fuscus* 349  
   *korros* 349  
   *mucosus* 349  
   *nigromarginatus* 349  
*Ptychadena mascareniensis* 662  
*Ptychoglossus*  
   *brevifrontalis* 402  
   *danieli* 402  
   *festae* 402  
   *gorgonae* 402  
   *plicatus* 402  
   *vallensis* 402  
*Ptychohyla*  
   *erythromma* 194  
   *hypomykter* 194  
   *leonhardschultzi* 194  
   *zophodes* 194  
*Pygopodidae* 212  
*Pygopus lepidopus* 211  
*Python* 344  
   *curtus* 207–208, 212, 214, 349  
   *molurus* 212, 214, 349  
   *m. bivittatus* 349  
   *regius* 349  
   *reticulatus* 349  
   *sebae* 349  
   sp. 213, 349  
*Pythonidae* 212  
*Pythonodipsas carinata* 349  
*Pyxicephalus edulis* 663  
  
*Qianlabeo* 96–102  
*Quercus bicolor* 645  
  
*Raiamas* 370–377  
   *ansorgii* 376  
   *batesii* 373–374  
   *bola* 376  
   *buchholzi* 370–377  
   *christyi* 370–377  
   *guttatus* 376  
   *kheeli* 370–377  
   *moorii* 376  
   *nigeriensis* 376  
   *salmolucius* 370–377  
   *senegalensis* 372  
   *steindachneri* 376  
   *weeksii* 370–377  
*Ramphotyphlops*  
   *braminus* 110  
   *nigrescens* 208, 214  
*Rana* 56, 480, 578  
   *archotaphus* 43–59  
   *aurora* 194  
   *berlandieri* 194  
   *blairi* 138  
   *cascadae* 159, 194  
   *catesbeiana* 164, 194, 479  
   *clamitans* 164, 478–488  
   *compotrix* 48, 52–56  
   *cucae* 44–49, 52, 56  
   *daorum* 43–59  
   *inodes* 43–59  
   *livida* 57  
   *muscosa* 188–197  
   *sevosa* 159  
   *sierramadrensis* 194  
   *sphenocephala* 138  
   *temporaria* 810–817  
   *vitrea* 48–51, 54, 56  
   *zweifeli* 194  
*Ranidae* 43–59, 674–695  
*Ranodon* 578  
   *sibiricus* 578  
*Rastrinus* 792–796  
   *scutiger* 792–796  
*Rattus*  
   *norvegicus* 110  
   *rattus* 663  
*Rectoris* 101  
*Regina septemvittata* 349  
*Rhabdolichops* 27–42  
   *caviceps* 27–42  
   *eastwardi* 27–42  
   *electrogrammus* 27–29, 35, 37, 39  
   *jegui* 27–29  
   *longicaudatus* 27  
   *lundbergi* 27–42  
   *navalha* 27–42  
   *nigrimans* 27–42  
   sp. 39  
   *stewarti* 27–42  
   *troscheli* 27–42  
   *zareti* 27–29, 37, 39  
*Rhabdomys pumilio* 663  
*Rhabdophis tigrinus* 208, 214, 349  
*Rhamdomyia pumilio* 662  
*Rhammophis aethiopissa* 349  
*Rhamnus frangula* 743  
*Rhamphiophis* 650–651  
   *acutus* 651  
   *oxyrhynchus rostratus* 349  
*Rhinatreumatidae* 259  
*Rhinobothryum bovalli* 349  
*Rhinobrycon* 635  
*Rhinocleilus lecontei* 349  
*Rhinopetitia* 635  
*Rhinopias* 500  
   *aphanes* 500–515  
   *argoliba* 500, 502, 507–509, 511, 514  
   *cea* 500, 502, 507–509, 511, 514  
   *eschmeyer* 500–515  
   *frondosa* 500–515  
   *xenops* 500, 502, 507–509, 511, 514  
*Rhinophis blythii* 208–210, 212, 214  
*Rhinotyphlops*  
   *mucrosa* 111  
   *schlegelii* 208, 212, 214

*Rhyacotriton olympicus variegatus* 567

*Riama*

- achlyens* 402
- anatoloros* 402
- hyposticta* 402
- luctuosa* 402
- orcei* 402
- raneyi* 402
- shrevei* 402
- simotera* 402
- stigmatoral* 402
- striata* 402
- unicolor* 402

*Ribeiroia* 814

*Rimasuchus lloydi* 155

*Riolama leucosticta* 402

*Rotuma* 10, 13

*Saccodon* 89

*Sagittaria* 545

*Salamandrella* 578

*keyserlingii* 578

*Salvadora*

- grahamiae* 349
- g. grahamiae* 349
- g. lineata* 349

*Sander glaucus* 310

*Sanzinia madagascariensis* 349

*Sarcoglanidinae* 202

*Sarcoglanis simplex* 202

*Satan* 379

*Scaphiophis*

- albopunctatus* 349
- a. albopunctatus* 349

*Scaphirhynchus* 324

*Scarabaeidae* 293–300

*Scaridae* 323

*Sceloporus* 220, 297, 537, 568

- chaneyi* 318
- gracioso* 566
- merriami* 216
- occidentalis* 216–217, 535–538, 566
- orcutti* 298
- undulatus* 216

*Scelotes brevipes* 111

*Schismatorhynchus* 101

*Schultzeichthys* 203

*bondi* 204

*Sciadeops*

- troscelii* 559–560
- troscellii* 559

*Sciades*

- hymenorrhinos* 559–560
- hymenorrhinus* 559

*Sciaenidae* 516

*Scincidae* 108, 110, 212, 295, 467, 658

*Scirpus* 743, 749

*Sciurus* 181–187

*carolinensis* 183

*Scleroglossa* 466, 469

*Scolecophorus kirkii* 110

*Scolecophidia* 212

*Scorpaena* 360–369

*frondosa* 508–509, 514

*gasta* 360–369

*gibbifrons* 367–368

*sumptuosa* 360–369

*Scorpaenidae* 360–369, 500–515

*Scorpaeniformes* 360, 445–459, 500–515, 792–796

*Scorpaenopsis* 457

*neglecta* 457

*obtusa* 457

*Scorpionida* 465

*Sebastapistes* 360

*Sebastes alutus* 81

*Semilabeo* 101

*Semotilus* 321

*Setranematichthys quadrifilis* 177

*Seychellea hectori* 322

*Sibynomorphus ventrimaculatus* 349

*Sibynophis*

- bivittatus* 349
- geminatus* 349
- sagittarius* 349

*Siluriformes* 60–67, 198–205, 378–383, 412–422

*Simoselaps*

- bertholdi* 349
- semifasciatus* 349

*Similabeo* 96–102

*hummeli* 96–102

*longibaratus* 96

*tungting* 96

*Sinocrossocheilus* 101

*guizhouensis* 101

*microstomatus* 101

*Sinomicrurus japonicus* 349

*Sinonatrix*

- aequifasciata* 349
- annularis* 349
- percarinata* 349
- trianguligera*
- trianguligerus* 349

*Siphlophis cervinus* 349

*Sistrurus*

- catenatus* 349
- c. catenatus* 742–751
- miliarius* 349
- m. barbouri* 349
- ravus* 349

*Smegmamorpha* 326

*Smilisca baudini* 194

*Solidago* 743, 749

*Solifuga* 465

*Sonora semiannulata* 349

*Sorghastrum* 743, 749

*Spalerosophis*

- diadema* 349
- d. schiraziana* 349

*Sphagnum* 749

*Sphenomorphus*

- incognitos* 295–296
- indicus* 298

- taiwanensis* 298  
 Sphingidae 295  
*Spilotes*  
   *pullatus* 349  
   *p. mexicanus* 349  
*Spiniphryne* 404–411  
   *duhameli* 404–411  
   *gladisfenae* 404–411  
   sp. 409  
*Sporobolous* 743, 749  
*Squalus*  
   *mitsukurii* 559  
*Squamata* 396–403, 711–734  
*Stangerochampsia* *mccabei* 155  
*Stathmonotus* *hemphillii* 560–561  
*Stauruglanis* *gouldingi* 202  
*Stegophilinae* 198–205  
*Stegophilus* 198, 202–204  
   *insidiosus* 204–205  
   *intermedius* 198  
*Steindachnerina* sp. 94  
*Stenolepis* *ridleyi* 402  
*Stenorhina*  
   *degenhardtii* 349  
   *freminvillae* 349  
*Sternarchogiton* *nattereri* 826  
*Sternarchorhynchus* 826  
   *curvirostris* 826  
   *mormyrus* 826  
   *roseni* 826  
   *sima* 826  
*Sternopygidae* 27–42  
*Sternopygus*  
   *branco* 29, 37  
*Stilosoma* *extenuatum* 349  
*Stlegicottus* 792–796  
   *xenogrammus* 792–796  
*Stolephorus* 559  
*Storeria*  
   *dekayi* 349  
   *occipitomaculata* 349  
*Strongylopus* *grayii* 663  
*Symphimus* *mayae* 349  
*Symphurus*  
   *arabicus* 230  
   *fuscus* 230  
   *gilesi* 230  
   *macrophthalmus* 230–234  
   *maldivensis* 230, 233  
   *microrhynchus* 233  
   *monostigmus* 230–234  
   *ocellatus* 230  
   *regani* 230  
   *sayadalmahensis* 230, 233  
   *schultzi* 233  
   *strictus* 230  
   *trifasciatus* 233  
   *undatus* 230, 233  
   *variegatus* 230  
   *woodmasoni* 230  
 Synbranchidae 326, 560–561  
 Synbranchiformes 326–327  
*Syngnathus*  
   *euchrous* 560  
   *scovelli* 739  
*Takydromus* 298  
   *hsuehshanensis* 298  
   *sauteri* 297  
   *stejnegeri* 298  
*Tamias* 181–187  
   *striatus* 183  
*Tantilla* *gracilis* 349  
*Tatia* *boemia* 421  
*Taurulus* *bubalus* 441  
*Teiidae* 14–26, 460, 467  
*Teius* *leyou* 402  
*Teleostei* 89–95, 244–255, 289–292, 324, 370–377,  
   431–436, 472–477, 489–499, 539–543, 585–594,  
   613–622  
*Telescopus*  
   *fallax iberus* 349  
   *semiannulatus semiannulatus* 349  
*Tenebrionidae* 295  
*Terrapene* *carolina* 129–136, 284  
*Tetragonopterinae* 630, 633  
*Tetranematichthys* 168–180, 413  
   *quadrifilis* 168–180  
   *wallacei* 168–172, 175–179, 421  
*Tettigoniidae* 293–300  
*Teuchoercus* 396–403  
   *keyi* 402  
*Thalassephina* *viperina* 349  
*Thamnophis*  
   *butleri* 349  
   *eques* 349  
   *marcianus* 349  
   *proximus* 349  
   *radix* 349  
   *sirtalis* 349, 536  
   *s. parietalis* 349  
   *s. sirtalis* 349  
   *valida* 349  
*Thayeria* 636  
*Thelotornis* 265  
   *capensis* 663  
   *c. capensis* 349  
   *kirtlandii* 349  
*Theragra* *chalcogramma* 81, 116–119  
*Thrasops* *flavicularis* 349  
*Tipulidae* 607  
*Toluca*  
   *lineata* 349  
   *l. varians* 349  
*Tomocodon* *eos* 560–561  
*Tomistoma*  
   *cairensis* 155  
   *lusitanica* 155  
   *schlegelii* 153, 155  
*Tomistominae* 155  
*Tomodon* *degener* 349  
*Tomopterna* sp. 663

- Toxicodendron vernix* 743, 749  
*Trachelyopterus* 176, 413  
     *galeatus* 421  
     *lucenai* 421  
*Trachemys scripta* 769  
*Trachylepis* 659  
     *acutilabris* 663  
     *laevis* 662  
     *maculilabris* 662  
     *mlanjensis* 663  
     *planifrons* 662  
     *punctatissima* 110  
     *quinqetaeniata* 110  
     sp. 110, 658, 663  
     *striata* 110, 658  
     *sulcata* 663  
     *varia* 662–663  
     *variegata* 658  
*Trematominae* 752–759  
*Trematomus* 752, 756–757  
     *bernacchii* 758  
     *hansoni* 758  
     *loennbergii* 757–758  
     *newnesi* 757–758  
*Tretanorhinus mocquardi* 349  
*Tretioscincus*  
     *agilis* 402  
     *bifasciatus* 402  
*Trichomycteridae* 198–205  
*Trichomycterinae* 204  
*Trichomycterus* 620  
     *mondolfi* 204  
     *naipi* 620  
     *nigromaculatus* 204  
     *plumbeus* 620  
     sp. 204  
     *taroba* 620  
*Trichoptera* 34–35, 606–607  
*Tridensimilis venezuelae* 204  
*Trimeresurus*  
     *albolabris* 349  
     *flavomaculatus* 349  
     *popeiorum* 349  
     *puniceus* 349  
     *stejnegeri* 349  
     *sumatranus* 349  
*Trimorphodon*  
     *biscutatus* 349  
     *b. lambda* 349  
*Trinectes paulistanus* 560–561  
*Tripanurgos compressus* 349  
*Triportheus* 636  
*Triturus karelinii* 578  
*Troglolani* 379  
*Tropheops*  
     *gracilior* 289–292  
     *tropheops* 289–292  
*Tropidoclonion lineatum* 349  
*Tropidodipsas*  
     *fischeri fischeri* 349  
     *zweifeli* 318  
*Tropidolaemus wagleri* 349  
*Tropidophis* 213  
     *pardalis* 349  
*Tropiduridae* 460, 467  
*Tropidurus* 569  
     *oreadicus* 462–468  
*Tupinambis quadrilineatus* 463–468  
*Typha* 545, 743  
*Typhlacontias gracilis* 111  
*Typhlopidae* 108, 212, 658  
*Typhlops* 108  
     *bibronii* 110–111  
     *blanfordi* 110  
     *fornasinii* 110  
     *lalandei* 110  
     *lineolatus* 349  
     *muelleri* 207–208, 212, 214  
     *punctatus* 349  
     sp. 111  
*Typhlosaurus aurantiacus* 111  
*Tyson* 10, 13  
  
*Uma* 566–567  
*Uromacer* 265  
     *catesby* 349  
     *oxyrhynchus* 349  
*Uropeltidae* 212  
*Uropeltis melanogaster* 349  
*Urosaurus* 216  
     *bicarinatus* 6  
     *ornatus* 217  
  
*Vandellia*  
     *becarii* 204  
     sp. 204  
*Vandelliinae* 198, 204  
*Vanzosaura rubicauda* 402, 463–468  
*Varanus* 337–350  
     *acanthurus* 345  
     *albigularius* 345  
     *bengalensis* 345  
     *dumerillii* 345  
     *exanthematicus* 213, 345  
     *gouldii* 345  
     *griseus* 345  
     *komodoensis* 339, 345  
     *nebulosus* 345  
     *niloticus* 345  
     *olivaceus* 345  
     *ornatus* 345  
     *prasinus* 345  
     *rudicollis* 345  
     *salvator* 208, 213, 339, 345  
     sp. 339, 345  
     *timorensis* 345  
*Varicorhinus* 101  
     *discognathoides* 100  
     *tungting* 96–102  
*Vermicella annulata* 349  
*Vipera*  
     *ammodytes* 349

- aspis* 349  
*berus* 349  
*palaestinae* 349  
*renardi* 349  
Viperidae 818  
Virginia  
  *striatula* 349  
  *valeriae elegans* 349  
Volia 156  
  
*Waglerophis merremi* 208, 212, 214, 349  
*Wallerinnesia aegyptia* 349  
Womambi 338, 343  
  *naracoortensis* 338, 343  
  
*Xenelaphis hexagonotus* 349  
*Xenisthmus* 10, 13  
*Xenocalamus* 103–115  
  *bicolor* 105–109, 111–113  
  *mechowii* 106, 111–113  
  *sabiensis* 111–112  
*Xenochrophis piscator* 349  
  
*Xenodermus javanicus* 349  
*Xenodon*  
  *merremi* 349  
  *rabdocephalus* 349  
  *r. mexicanus* 349  
  *severus* 349  
Xenopeltidae 212  
*Xenopeltis unicolor* 208, 212, 214, 349  
*Xenopoecilus* 328  
*Xenopus* 578  
*Xiphias gladius* 314  
*Xystreureys ribeiroi* 237, 241  
  
Yurlunggur 338, 343, 349  
  sp. 338, 343  
  
Zoarcidae 77–82  
*Zigaspis violacea* 110  
*Zygaspis* 108  
  *quadrifrons* 111  
  *violacea* 108  
Zygoptera 270



# SUBJECT INDEX

## COPEIA 2006, Nos. 1-4

- ACTIVITY**, *Gopherus polyphemus* (hitchling, act. ptms.) 68-76; *Carapus mourlani* (daily act. cycles for pearlfish hosted by sea cucumbers) 122-128; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (act. times overlap more w/in fams.) 460-471; *Nerodia sipedon* (mvmnt./day, summer ranges, telem. data, gender & condit. diffs.) 544-551.
- AGE**, *Clemmys guttata* (extreme longev., gender diffs.) 281-288; *Mabuya longicaudata* (at sex. matur.) 293-300.
- BEHAVIOR**, Atractaspididae (descript. of & theory on evol. of "side-stabbing" mode of envenomation) 103-115; *Pseudacris (illinoensis, triseriata)* (ctshp. beh. & calls) 137-144; *Crotalus horridus* (videogr. prod. quantifiable data on mult. aspects of pred. in free-ranging ambush predator) 181-187; *Crotaphytus collaris* (male sprint speed rel. to mating success) 216-224; Lake Malawi rock-dwelling cichlids (8 spp.) (feeding beh. & territs. rel. to feed. angles) 289-292; *Crotaphytus antiquus* (male bite-force predicts domin.) 301-306; *Rana clamitans* (tdpls.) (volun. swim. activ. & max. speed not genet. correl. in pred. escape w/in popn.) 478-488; *Barbus neumayeri* (hypoxia acclim. affs. foraging activ. in swamp-dwelling fish) 552-557; *Calumma* (6 n. spp., revised *brevicorne*, all 5 other lg. occip.-lobed spp.) (rel. to male rostral append. mvmnt.) 711-734; *Ictalurus punctatus* (genet. evid. of monogamy in male nest-guarding sp.) 735-741; *Oedura lesueurii* (tail loss not aff. anti-pred. beh.) 803-809.
- BIODIVERSITY**, *Noturus (stanauli, crypticus)* (phyl. anal. of ictalurids w/ mtDNA data shows cryptic spp. & biodivers. hotspots) 378-383.
- BIOGEOGRAPHY**, *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) (dwarf Quaternary croc., atoll fossil bed, probably not island dwarfism) 149-158; *Aphanius (isfahanensis* n. sp., *sophiae, persicus, vladkykovi*) (biogeogr. explan. for spp. divers. suggests other cryptic spp. in Iran) 244-255; *Guianacara (stergiosi* n. sp., *cuyunii* n. sp.) (distrib. of the 6 *Guianacara* spp. rel. to hydrolog. hist. of Guiana Shield) 384-395; *Notropis (amplamala* n. sp., *buccatus*) (unique distrib. of fish sister spp.) 423-430; *Orestias piauotensis* n. sp. (rel. to speciation of S. Amer. cyprinodontids of Altiplano) 472-477; *Hoplias (aimara, macrophthalmus = aimara)* (Guyanas & Brazilian Shields & lower Orinoco drainages, common ptn. for freshwater fishes) 516-528; *Percina (burtoni, sp. cf. burtoni)* (evid. for unrecognized uniqueness of Duck R. drainage) 585-594; *Jenynsia diphyes* n. sp. (subgen. *Plesiojenynsia*) (discussion of endemism in Rio Iguacu, Brazil) 613-622.
- BLOOD**, *Sceloporus occidentalis* (hematocrit, plasma protein & blood viscos., ontogen. chngs. & temper. effs.) 535-538.
- CALLS**, *Rana (cucae* n. sp., *vitrea* n. sp., *compotrix* n. sp., *archotaphus*) (calling microhabs., describe call of *R. cucae*) 43-59; *Pseudacris (illinoensis, triseriata)* (ctshp. calls compared to advert. calls) 137-144; *Platymantis (nakanaiorum* n. sp., *nexipus*) (advert. calls of both spp. & a suspected n. sp.) 674-695.
- CHROMOSOMES**, *Caudacacilia asplenica* (first report of karyo. of *Caudacacilia*) 256-260.
- COLORATION**, *Aspidoscelis (dixoni, tessellata)* (individuals, of both spp., incl. 4 color ptms., are histocompatible) 14-26.
- COMPETITION**, Lake Malawi rock-dwelling cichlids (8 spp.) (diff. feed. angles in sympat. cichlids red. feed. comp.) 289-292.
- CONSERVATION**, *Gopherus polyphemus* (hitchling, ranges important in determ. of range sizes needed for conserv.) 68-76; *Gopherus polyphemus* (ecol. energetics of free-ranging threatened sp.) 129-136; *Acris crepitans blachardi* (range contract, not due to hab. acidification, other possible causes, recomms. for monitoring) 159-167; *Clemmys guttata* (conserv. problems for sp. w/ extreme longev., low reprod. rate) 281-288; *Noturus (stanauli, crypticus)* (phyl. anal. of ictalurids w/ mtDNA data shows cryptic spp. & biodivers. hotspots, conserv. recomms.) 378-383; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (anal. of commun. struct. import. in conserv. mngmnt. of thrtnd. biome) 460-471; *Percina (burtoni, sp. cf. burtoni)* (genet. var. w/in & btwn. popns., phyl. anal., assess conserv. priorities) 585-594; *Calumma* (6 n. spp., revised *brevicorne*, all 5 other lg. occip.-lobed spp.) (all 12 spp. require intact primary hab., recomm. more protected area creation) 711-734; *Sistrurus catenatus catenatus* (home ranges not include disturbed habs., conserv. implcs.) 742-751.
- DENTITION**, *Henonemus triacanthopomus* n. sp. (unique to genus) 198-205; *Caudacacilia asplenica* (first evid. of splenial teeth in *Caudacacilia* larvae) 256-260; squamate reptiles (incl. fossils) (plicidentine found only in varanoid lizards) 337-350.
- DEVELOPMENT**, squamate reptiles (incl. fossils) (plicidentine form. in tooth dev., only in varanoid lizards) 337-350; *Sceloporus occidentalis* (ontogen. chngs. in hematocrit & blood viscos.) 535-538; *Chelydra serpentina* (var. water cont. of natural nest soil affs. hitchling. size) 769-777; *Rana temporaria* (agric. habs. not cause abnormalities in frog popns. in S. Finland) 810-817.
- DISTRIBUTION**, *Rana (cucae* n. sp., *vitrea* n. sp., *compotrix* n. sp., *archotaphus*) (notes) 43-59; *Lycodes akuuugun* n. sp. 77-82; *Carapus mourlani* (new geogr. dist. for pearlfish found in new host) 122-128; *Acris crepitans blachardi* (lg. decline in E part of range) 159-167; *Tetranema-*

*tichthys (wallacei n. sp., quadrifilis)* 168–180; *Henonemus triacanthopomus* n. sp. 198–205; *Aphanius (isfahanensis n. sp., sophiae, persicus, vladikovii)* 244–255; *Guianacara (stergiosi n. sp., cuyunui n. sp.)* 384–395; *Spiniphryne (duhameli n. sp., gladiiferae)* 404–411; *Entomocorus (radius n. sp., benjamini, gameroi, melaphareus)* 412–422; *Notropis (amplamala n. sp., buccatus)* (unique dist. of fish sister spp.) 423–430; *Hoplias (aimara, macrophthalms = aimara)* (sim. to other freshwater fishes) 516–528; *Brachyhyopomus bombilla* n. sp. 665–673; *Calumma* (6 n. spp., revised *brevicorne*, all 5 other lg. occip.-lobed spp.) (collect. locals. for 6 n. spp. & *C. brevicorne*) 711–734.

**ECOLOGY.** *Rhabdolichops (nigrimans n. sp., navalha n. sp., hunderbergi n. sp.)* (detailed hab. notes incl. seas. diffs., diet, some repro.) 27–42; *Gopherus polyphemus* (hitchling. beh. ecol.) 68–76; *Lycodes akuugun* n. sp. (notes) 77–82; *Atractaspis bibronii*, *Amblyodipsas (polylepis, ventrimaculata)*, *Macrelaps microlepidotus*, *Xenocalamus (bicolor, mechowii)* (ecol. data from morph. meas., stom. conts., & gonad inspection of preserved specimens) 103–115; *Gopherus polyphemus* (ecol. energetics of free-ranging turtles) 129–136; *Boa constrictor* (morph. comparison of island & mainland forms) 261–267; *Mabuya longicaudata* (ecol. charcs., island skink) 293–300; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (compare phylogen. vs. contemp. ecol. factors in assemblage struct.) 460–471; *Orestias piacotensis* n. sp. (notes on microhab. & stom. conts., compare to other “agassii complex” spp.) 472–477; *Hoplias (aimara, macrophthalms = aimara)* (notes on habits, diet, migr.) 516–528; *Nerodia sipedon* (summer ranges, activ., hab. var., gender & condit. diffs.) 544–551; *Ambystoma maculatum* (decaying egg masses, larvae & adults input into detrital food chains, very signif. during repro. seas.) 640–649; *Platymantis (nakanaiaurum n. sp., nexipus)* (calling microhab., sympatric anurans) 674–695; Great Plains stream fishes (persist. of spp. assoc. w/in small stream pools over var. time intervals, ecol. implics.) 696–710; *Sistrurus catenatus catenatus* (micro- & macrohab. use rel. to home range size & composit.) 742–751.

**EGGS.** *Phyllodactylus lanei* (2 per clutch, egg size var. w/female mass) 1–9; *Bufo calamita* (severe pred. by introd. crayfish on toad eggs) 274–280; *Ambystoma maculatum* (egg clutch growth & decomp., role in detritus food chain) 640–649; *Cheyledra serpentina* (var. water cont. of natural nest soil affs. egg mass & hitchling. size) 769–777.

**ELECTRIC ORGAN.** *Rhabdolichops navalha* n. sp. (unique morph. of elec. organ) 27–42; *Brachyhyopomus bombilla* n. sp. (EOD, temp. var., compare to EOD of *B. pinnicaudatus*) 665–673.

**ENDANGERED SPECIES.** *Gambusia (heterochir, affinis)* (hybrid. but no long-term genet. introgress. btwn. endngd. sp. & *G. affinis*) 351–359; *Noturus (stanauli, crypticus)* (phyl. anal. of

ictalurids w/ mtDNA data shows cryptic spp. & biodivers. hotspots, conserv. recomms.) 378–383.

**EVOLUTION.** *Aspidoscelis (dixoni, tessellata)* (implics. of histocompatibility btwn. spp. & color ptns.) 14–26; *Atractaspididae* (theory on evol. of “side-stabbing” mode of envenomation) 103–115; snakes & non-ophidian squamates incl. limb-reduced spp. (evid. that a snake muscle is pect. girdle muscle homolog) 206–215; *Crotaphytus collaris* (evid. for intrasex. select. on male sprint speed) 216–224; *Aphanius (isfahanensis n. sp., sophiae, persicus, vladikovii)* (biogeogr. of Iran suggests multiple cryptic spp. not yet recognized) 244–255; *Boa constrictor* (morph. diffs. btwn. island & mainland forms, rapid evol. chng.) 261–267; *Gambusia (heterochir, affinis)* (evid. of severe postmating isol. btwn. endngd. sp. & *G. affinis*) 351–359; *Menidia (menidia, peninsulae)* (nat. sel. probably explains latitud. var. in vertebral # in both spp.) 431–436; Great Plains stream fishes (persist. of spp. assoc. w/in small stream pools over var. time intervals, evol. implics.) 696–710.

**EXTINCTION.** *Rana muscosa* (visual indicator of chytridiomycosis infect. in tdpls., rel. to amphib. popn. declines & extinct.) 188–197; *Percina (burtoni, sp. cf. burtoni)* (popn. extincts. rel. to dams) 585–594.

**FEEDING.** *Atractaspididae* (theory on evol. of “side-stabbing” mode of envenomation) 103–115; *Crotalus horridus* (videogr. prod. quantifiable data on mult. aspects of pred. in free-ranging ambush predator) 181–187; Lake Malawi rock-dwelling cichlids (8 spp.) (feed. beh. & territ. rel. to feed. angles) 289–292; *Barbus neumayeri* (hypoxia acclim. affs. foraging activ. in swamp-dwelling fish) 552–557; *Percina shumardi* (seas. & ontogen. var. in snail-feeding, evid. for snail-feeding in other spp. of subgenus *Imostoma*) 604–612.

**FOOD.** *Paraxenisthmus (cerberusi n. sp., springeri)* (stom. conts. of 1 specimen) 10–13; *Rhabdolichops (nigrimans n. sp., navalha n. sp., hunderbergi n. sp.)* (notes on diet) 27–42; *Lycodes akuugun* n. sp. (notes on stom. conts.) 77–82; *Graptemys geographica* (eff. of introd. muscles on diet, gender diffs.) 268–273; *Mabuya longicaudata* (diet, island skink) 293–300; *Entomocorus (radius n. sp., benjamini, gameroi)* (stom. conts.) 412–422; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (diet overlaps more w/in fams.) 460–471; *Orestias piacotensis* n. sp. (notes on microhab. & stom. conts., compare to other “agassii complex” spp.) 472–477; *Hoplias (aimara, macrophthalms = aimara)* (juvs. omniv., adults pisciv.) 516–528; *Percina shumardi* (seas. & ontogen. var. in snail-feeding, evid. for snail-feeding in other spp. of subgenus *Imostoma*) 604–612; *Ambystoma maculatum* (decaying egg masses, larvae & adults input into detrital food chains, very signif. during repro. seas.) 640–649; Psammophiine snakes (*Psammophylax titaenia-*

tus, 9 spp. of *Psammophis*) (most spp. eat specific types of lizards, some eat mammals too, *P. tritaeniatus* mainly mammals) 650–664.

GENETICS, *Caudacacilia asplenica* (first report of karyo. of *Caudacacilia*) 256–260; *Rana clamitans* (tdpls.) (genetic evid. of lack of intrasp. neg. correl. btwn. growth & pred. escape traits in single popn.) 478–488; *Percina (burtoni, sp. cf. burtoni)* (gen. var. w/in & btwn. popns., phyl. anal., assess conserv. priorities) 585–594.

#### GEOGRAPHIC LOCALITIES.

Africa, *Atractaspis bibronii*, *Amblyodipsas* (polylepis, ventrimaculata), *Macrelaps microlepidotus*, *Xenocalamus* (bicolor, mechowii) (Southern) 103–115.

Alabama, *Notropis amplamala* n. sp. 423–430; *Percina (burtoni, sp. cf. burtoni)* 585–594; *Percina shumardi* 604–612.

Alaska, *Lycodes (akuugun* n. sp., *diapterus*, *brevipes*, *concolor*) 77–82; *Stlegicottus xenogrammus* = *Rastrinus scutiger* 792–796.

Aldabra Atoll, *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) 149–158.

Aleutian Islands, *Lycodes (akuugun* n. sp., *diapterus*, *brevipes*, *concolor*) 77–82.

Antarctica, *Cryotheria amphitreta* n. sp. (McMurdo Sound) 752–759.

Argentina, *Paralichthys orbignyanus* 235–243.

Atlantic Ocean, *Paralichthys orbignyanus* (SW) 235–243; *Spiniphryne gladiiferae* 404–411; *Albula vulpes* sp. E (W) 778–784.

Australia, *Scorpaena (gasta* n. sp., *sumptuosa*) (WA) 360–369; *Maxilliscosta (meridianus* n. sp. [VIC, TAS, SA], *whitleyi* [VIC, NSW, QLD]) 445–459; *Rhinopias (frondosa, aphanes)* (QLD) 500–515; *Oedura lesueurii* (NSW) 803–809.

Belize, *Boa constrictor* 261–267.

Bering Sea, *Stlegicottus xenogrammus* = *Rastrinus scutiger* 792–796.

Bismarck Archipelago, *Platymantis (nakanaorum* n. sp., *nexipus*) (New Britain Is.) 674–695.

Bolivia, *Monotomocorus benjamini* 412–422; *Monotomocorus pearsoni* 529–534; “*Hyla*” *chlorostea* = *Hyloscirtus chlorostea* 785–791.

Borneo, *Caudacacilia asplenica* (Sabah) 256–260.

Botswana, *Psammophiine* snakes (*Psammophylax tritaeniatus*, 9 spp. of *Psammophis*) 650–664.

Brazil, *Rhabdolepis (nigrinans* n. sp., *navalha* n. sp., *lundbergi* n. sp.) 27–42; *Apareiodon (vladii* n. sp., *piracicabae*, *ibitiensis*) 89–95; *Tetranematichthys (wallacei* n. sp., *quadrifilis*) 168–180; *Paralichthys orbignyanus* 235–243; *Entomocorus (radiosus* n. sp., *benjamini*, *metaphareus*) 412–422; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) 460–471; *Microphilypnus* (3 spp.) 489–499; *Hoplias (aimara, macrophthalmus* = *aimara*) 516–528; *Jenynsia diphyes* n. sp. (subgen. *Plesiojenynsia*) 613–622; *Dendrobates (tinctorius, azureus* = *tinctorius*) 623–629; *Knodus tiquiensis* n. sp. 630–639; *Albula vulpes* sp. E 778–784; *Apterodontus bonapartii* 826–833.

California, *Rana muscosa* 188–197; *Micropterus salmoides* 437–444.

Canada, *Clemmys guttata* (Ont.) 281–288; *Menidia menidia* (Nova Scotia) 431–436; *Lampropeltis triangulum* (Ont.) 797–802.

Chile, *Orestias piacotensis* n. sp. 472–477.

China, *Varicorhinus tungting* = *Sinilabeo hummeli* n. sp. 96–102.

Colombia, *Tetranematichthys wallacei* n. sp. 168–180; *Microphilypnus ternetzi* 489–499.

Congo River, *Raiamas kheeli* n. sp., *Opsaridium christyi* = *Raiamas christyi*, *Raiamas weeksii* = *Leptocypris weeksii* (lower) 370–377.

Coral Sea, *Rhinopias aphanes* 500–515.

Costa Rica, *Leptophilypnus (fluviatilis, panamensis)* 489–499.

Democratic Republic of Congo, *Raiamas kheeli* n. sp., *Opsaridium christyi* = *Raiamas christyi*, *Raiamas weeksii* = *Leptocypris weeksii* 370–377.

Ecuador, *Carapus mourlani* 122–128.

Fiji Islands, *Platymantis (vitianus, viitensis)* 83–88.

Finland, *Rana temporaria* 810–817.

Florida, *Gopherus polyphemus* 68–76; *Notropis amplamala* n. sp. 423–430; *Menidia (menidia, peninsulae)* 431–436.

French Guiana, *Dendrobates (tinctorius, azureus* = *tinctorius*) 623–629.

Georgia, *Notropis amplamala* n. sp. 423–430.

Guatemala, *Leptophilypnus (guatemalensis* n. sp., *fluviatilis*) 489–499.

Guyana, *Echinostaura sulcarostrum* n. sp. 396–403; *Hoplias (aimara, macrophthalmus* = *aimara*) 516–528; *Dendrobates (tinctorius, azureus* = *tinctorius*) 623–629.

Hawaii, *Albula (forsteri, glossodonta)* 778–784.

Honduras, *Leptophilypnus fluviatilis* 489–499.

Illinois, *Pseudacris (illinoensis, triseriata)* 137–144; *Notropis buccatus* 423–430; *Ambystoma maculatum* 640–649.

Indian Ocean, *Bathychaunax coloratus* = *Chaunax coloratus* (E) 120–121; *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) (W) 149–158; *Symphurus monostigmus* n. sp. (W) 230–234; *Scorpaena (gasta* n. sp., *sumptuosa*) (E) 360–369; *Spiniphryne gladiiferae* (W) 404–411; *Rhinopias eschmeyerii* 500–515.

Indiana, *Notropis buccatus* 423–430.

Indonesia, *Rhinopias eschmeyerii* (Sulawesi) 500–515; *Leiognathus (longispinis, smithursti* = *longispinis*) (Irian Jaya) 539–543.

Iran, *Aphanius (isfahanensis* n. sp., *sophiae, persicus, vladikovii*) 244–255.

Irian Jaya, *Leiognathus (longispinis, smithursti* = *longispinis*) 539–543.

Japan, *Theragra chalcogramma* 116–119; *Rhinopias frondosa* 500–515.

Kentucky, *Notropis buccatus* 423–430.

Lake Malawi, Lake Malawi rock-dwelling cichlids (8 spp.) 289–292.

Laos, *Rana (vitrea* n. sp., *compotrix* n. sp.) 43–59.

Louisiana, *Notropis amplamala* n. sp. 423–430.

Madagascar, *Rhinopias frondosa* 500–515; *Calumma* (6 n. spp., revised *brevicornis*, all 5 other lg. occip-lobed spp.) 711–734.

Malawi, Lake Malawi rock-dwelling cichlids (8 spp.) 289–292.

- Malaysia, *Caudacacilia asplenii* (Sabah) 256–260.  
 Maryland, *Notropis buccatus* 423–430.  
 Mauritius, *Rhinopias* (*eschmeyeri*, *frondosa*) 500–515.  
 Mexico, *Phyllodactylus lanei* (Jal.) 1–9; *Crotaphytus antiquus* (Coah.) 301–306; *Albula nemoptera* (Col.) 778–784.  
 Michigan, *Sistrurus catenatus catenatus* 742–751; *Chelydra serpentina* 769–777.  
 Mississippi, *Gopherus polyphemus* 129–136; *Notropis amplamala* n. sp. 423–430.  
 Missouri, *Notropis buccatus* 423–430; *Nerodia sipedon* 544–551; *Plethodon albagula* 760–768.  
 Namibia, Psammophiine snakes (*Psammophylax tritaeniatum*, 9 spp. of *Psammophis*) 650–664.  
 New Britain Island, *Platymantis* (*nakanaiorum* n. sp., *nexipus*) 674–695.  
 New Caledonia, *Rhinopias aphanes* (Noumea) 500–515.  
 New Mexico, *Aspidoscelis* (*dixonii*, *tesselata*) 14–26.  
 New York, *Crotalus horridus* 181–187; *Menidia menidia* 431–436.  
 New Zealand, *Eptatretus goliath* n. sp. 225–229.  
 North Carolina, *Percina* (*burtoni*, sp. cf. *burtoni*) 585–594.  
 Noumea, *Rhinopias aphanes* 500–515.  
 Ohio, *Acris crepitans blanchardi* 159–167; *Notropis buccatus* 423–430.  
 Oklahoma, *Crotaphytus collaris* 216–224; Great Plains stream fishes 696–710; *Ictalurus punctatus* 735–741.  
 Oregon, *Sceloporus occidentalis* 535–538.  
 Pacific Ocean, *Theragra chalcogramma* (N) 116–119; *Bathychaunax coloratus* = *Chaunacops coloratus* (E) 120–121; *Eptatretus goliath* n. sp. (SW) 225–229; *Spiniphyrre* (*duhameli* n. sp., [N], *gladiferae* [W]) 404–411; *Rhinopias eschmeyeri* (W) 500–515; *Albula* (*nemoptera* [E], *forsteri* [C], *glossodonta* [C]) 778–784.  
 Palau, *Paraxenisthmus cerberusi* n. sp. 10–13.  
 Panama, *Leptophilypnus* (*fluviatilis*, *panamensis*) 489–499.  
 Papua New Guinea, *Rhinopias aphanes* 500–515; *Leiognathus* (*longispinis*, *smithursti* = *longispinis*) 539–543.  
 Pennsylvania, *Graptemys geographica* 268–273; *Notropis buccatus* 423–430.  
 Peru, *Chaetostoma changae* n. sp. 60–67; *Tetranematichthys wallacei* n. sp. 168–180; *Monotocheirodon* sp. 529–534; *Gastrotheca cariniceps* n. sp. 595–603.  
 Philippines, *Rhinopias eschmeyeri* 500–515.  
 Republic of Congo, *Raiamas kheeli* n. sp., *Opsaridium christyi* = *Raiamas christyi*, *Raiamas weeksii* = *Leptocypris weeksii* (lower) 370–377.  
 Reunion, *Rhinopias frondosa* 500–515.  
 Solomon Islands, *Paraxenisthmus springeri* 10–13, 43–59.  
 South Africa, *Symphurus monostigmus* n. sp. 230–234; Psammophiine snakes (*Psammophylax tritaeniatum*, 9 spp. of *Psammophis*) 650–664.  
 South Carolina, *Menidia menidia* 431–436.  
 Spain, *Bufo calamita* 274–280.  
 Sri Lanka, *Rhinopias frondosa* 500–515.  
 Suriname, *Hoplias* (*aimara*, *macrophthalmus* = *aimara*) 516–528; *Dendrobates* (*tinctorius*, *azureus* = *tinctorius*) 623–629.  
 Taiwan, *Mabuya longicaudata* (Orchid Is.) 293–300.  
 Tennessee, *Noturus* (*stanauli*, *crypticus*) 378–383; *Notropis buccatus* 423–430; *Percina* (*burtoni*, sp. cf. *burtoni*) 585–594.  
 Texas, *Aspidoscelis* (*dixonii*, *tesselata*) 14–26; *Gambusia* (*heterochir*, *affinis*) 351–359; *Plethodon albagula* 760–768.  
 Thailand, *Rana archotaphus* 43–59.  
 Uganda, *Barbus neumayeri* 552–557.  
 Uruguay, *Paralichthys orbignyanus* 235–243; *Brachyhypopomus bombilla* n. sp. 665–673.  
 Vanuatu, *Rhinopias aphanes* 500–515.  
 Venezuela, *Tetranematichthys wallacei* n. sp. 168–180; *Henonemus triacanthopomus* n. sp. 198–205; *Guianacara* (*stergiosi* n. sp., *cuyunii* n. sp.) 384–395; *Entomocorus gameroi* 412–422; *Microphilypnus ternetzi* 489–499; *Hoplias* (*aimara*, *macrophthalmus* = *aimara*) 516–528.  
 Vermont, *Rana clamitans* (tdpls.) 478–488.  
 Vietnam, *Rana* (*cucae* n. sp., *compotrix* n. sp.,) 43–59.  
 Virginia, *Notropis buccatus* 423–430; *Percina* (*burtoni*, sp. cf. *burtoni*) 585–594.  
 West Virginia, *Notropis buccatus* 423–430.  
 Zimbabwe, Psammophiine snakes (*Psammophylax tritaeniatum*, 9 spp. of *Psammophis*) 650–664.  
 GROWTH, *Rana clamitans* (tdpls.) (genetic evid. of lack of intrasp. neg. correl. btwn. growth & pred. escape traits in single popn.) 478–488.
- HABITAT, *Rhabdolichops* (*nigrimans* n. sp., *navalha* n. sp., *tundbergi* n. sp.) (detailed notes incl. seas. diffs.) 27–42; *Rana* (*cucae* n. sp., *vitrea* n. sp., *compotrix* n. sp., *archotaphus*) (notes, calling microhab.) 43–59; *Gopherus polyphemus* (htchlng. microhab. use) 68–76; *Platymantis* (*vitianus*, *vitiensis*) (high skin evap. water loss in Fijian frogs, microhab. diffs. btwn. spp. possible due to high humid. in all microhab.) 83–88; *Acris crepitans blanchardi* (range contract. not due to hab. acidification) 159–167; *Tetranematichthys wallacei* n. sp. (notes) 168–180; *Eptatretus goliath* n. sp. (depth) 225–229; *Symphurus monostigmus* n. sp. (depth) 230–234; *Paralichthys orbignyanus* (notes) 235–243; *Aphanius isfahanensis* n. sp. (notes) 244–255; *Mabuya longicaudata* (descript., mult. microhab., island skink) 293–300; *Raiamas kheeli* n. sp. (notes) 370–377; *Guianacara* (*stergiosi* n. sp., *cuyunii* n. sp.) (notes) 384–395; *Echinosaura sulcarostrum* n. sp. (notes) 396–403; *Spiniphyrre duhameli* n. sp. (depth) 404–411; *Entomocorus radiatus* n. sp. (notes) 412–422; *Notropis amplamala* n. sp. (notes) 423–430; *Maxillicosta meridianus* n. sp. (descript., compare to sympat. congener, *M. scabriceps*) 445–459; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (narrow niche breadth for all spp., var. overlap btwn. spp.) 460–471; *Orestias piacotensis* n. sp. (notes on microhab. & stom. conts., compare to other

- "agassis complex" spp.) 472-477; *Leptophilypnus (guatemalensis* n. sp., *fluvialis*, *panamensis*), *Microphilypnus* (descript.) 489-499; *Rhinopias eschmeyerii* (depth) 500-515; *Hoplias (aimara, macrophthalmus = aimara)* (notes) 516-528; *Nerodia sipedon* (summer hab. var.) 544-551; *Gastrotheca carinaceps* n. sp. (notes) 595-603; *Knodus tiquiensis* n.sp. (notes, prefer strong currents) 630-639; *Ambystoma maculatum* (breeding hab. & seas. timing of eggs & larvae in ponds) 640-649; *Brachyhyopomus bombilla* n. sp. (notes on hab., sympat. gymnoidiformes have diff. microhabs.) 665-673; *Calumma* (6 n. spp., revised *brevicorne*, all 5 other lg. occip-lobed spp.) (veg. type & elev.) 711-734; *Sistrurus catenatus catenatus* (micro- & macrohab. use rel. to home range size & composit.) 742-751; *Rana temporaria* (agric. habs. not cause abnormalities in frog popns. in S. Finland) 810-817.
- HISTOLOGY**, *Theragra chalcogramma* (sonic muscle innerv. only by spinal nerves) 116-119; squamate reptiles (incl. fossils) (plicidentine form. in tooth devel., only in varanoid lizards) 337-350.
- HOME RANGE**, *Gopherus polyphemus* (hitchling ranges important in conservation) 68-76; *Monotocheirodon (pearsoni, sp.)* (of intermittent organ of M. sp.) 529-534; *Nerodia sipedon* (summer ranges, core areas, mvmnt./day, telem. data, gender & condit. diffs.) 544-551; *Sistrurus catenatus catenatus* (micro- & macrohab. use rel. to home range size & composit.) 742-751; Herpetofauna, *Lampropeltis triangulum* (kernal's not accurate to estim. home range size, method to adjust smoothing factor) 797-802.
- HYBRIDIZATION**, *Aspidoscelis (dixonii, tessellata)* (hybrid-derived parthen. spp., individs. of both spp., incl. 4 color pttns., are histocompatible) 14-26; *Gambusia (heterochir, affinis)* (evid. of no gen. introgress. despite hybrid.) 351-359.
- IMMUNOLOGY**, *Aspidoscelis (dixonii, tessellata)* (individs. of both spp., incl. 4 color pttns., are histocompatible) 14-26.
- LARVAE**, *Rana muscosa* (visual indicator of chytridiomycosis infect. in tdpls., rel. to amphib. popn. declines & extinct.) 188-197; *Caudacaecilia asplenica* (first evid. of splenial teeth in *Caudacaecilia* larvae) 256-260; *Rana clamitans* (tdpls.) (genetic evid. of lack of intrasp. neg. correl. btwn. growth & pred. escape traits in single popn.) 478-488; *Ambystoma maculatum* (larval growth & decomp., role in detritus food chain) 640-649.
- LATERAL LINE**, *Lycodes (akuugun* n. sp., *diapterus, brevipes, concolor*) (n. sp. differs from all 60 congeners in cephalic pores & lat. line morph.) 77-82; *Henonemus triacanthopomus* n. sp. (lat. line charcs. support monophy. group of genera w/in Stegophilinae, sister rel. btwn. *Henonemus* & *Acanthopoma*) 198-205.
- LOCOMOTION**, *Crotaphytus collaris* (evid. for intrasex. select. on male sprint speed) 216-224; *Rana clamitans* (tdpls.) (volun. swim. activ. & max. speed not genet. correl. in pred. escape w/in popn.) 478-488; *Oedura lesueurii* (no evid. of loc. costs due to tail loss) 803-809.
- MENTAL GLANDS**, "*Hyla*" *chlorostea = Hyloscirtus chlorostea* in *Hyloscirtus armatus* sp. group (in adult males of *H. armatus* sp. group) 785-791.
- METHODS**, *Crotalus horridus* (videogr. prod. quantifiable data on mult. aspects of pred. in free-ranging ambush predator) 181-187; Herpetofauna, *Lampropeltis triangulum* (meth. to adjust smoothing factor using kernels & MCP to estim. home range size) 797-802.
- MICROSATELLITE DNA**, *Gambusia (heterochir, affinis)* (evid. of no gen. introgress. despite hybridiz.) 351-359; *Ictalurus punctatus* (gen. evid. of monogamy in male nest-guarding sp.) 735-741.
- MITOCHONDRIAL DNA**, *Aphanius (isfahanensis* n. sp., *sophiae, persicus, vladyskovi*) (in phyl. anal.) 244-255; *Gambusia (heterochir, affinis)* (evid. of no gen. introgress. despite hybridiz.) 351-359; *Noturus (stanawli, crypticus)* (in phyl. anal. of ictalurids that shows cryptic spp. & biodivers. hotspots) 378-383; *Percina (burtoni, sp. cf. burtoni)* (genet. var. w/in & btwn. popns., phyl. anal., assess conserv. priorities) 585-594; *Dendrobates (tinctorius, azureus = tinctorius)* (in phyl. anal. of polymorphic sp.) 623-629; *Cryotheria amphitrete* n. sp. (in phyl. anal. of n. sp. & represents. of 3 subfams. of Nototheniidae, n. sp. in Trematominae) 752-759; *Plethodon albagula* (in phyl. anal. of mult. popns., inconclusive evid. of mult. spp.) 760-768; *Albula (nemoptera, vulpes* sp. complex) (in phyl. anal. of group) 778-784.
- MORPHOLOGY**, *Rhabdolichops navalha* n. sp. (unique morph. of elec. organ) 27-42; Atractaspidae (unique "side-stabbing" mode of envenomation rel. to morph. & possible evol. pressures involved) 103-115; *Theragra chalcogramma* (sonic muscle innerv. only by spinal nerves) 116-119; *Tetranematichthys (wallacei* n. sp., *quadrifilis*) (maxil. barbel surface & muscle morph. suggests acts as fishing lure) 168-180; snakes & non-ophidian squamates incl. limb-reduced spp. (evid. that a snake muscle is pect. girdle muscle homolog) 206-215; *Boa constrictor* (morph. comparison of island & mainland forms) 261-267; Lake Malawi rock-dwelling cichlids (8 spp.) (feed. angles rel. to mouth position & head shape) 289-292; *Crotaphytus antiquus* (male bite-force predicts domin., not rel. to head morph.) 301-306; *Menidia (menidia, peninsular)* (intra- & interspec. latitud. var. in vertebrae # thruout geogr. ranges) 431-436; *Monotocheirodon (pearsoni, sp.)* (of intermittent organ of M. sp.) 529-534.
- NESTING**, *Ictalurus punctatus* (genet. evid. of monogamy in male nest-guarding sp.) 735-741; *Chelydra serpentina* (var. water cont. of natural nest soil affs. hitchling. size) 769-777.



**NOMENCLATURE.** *Varicorhinus tungting* = *Similabeo hummeli* n. sp. (misidentified type sp. fixed as *S. hummeli* n. sp.) 96–102; *Bathychaunax* = *Chaunacops* (previously unknown name, *Chaunacops*, publ. in 1899, precedes *Bathychaunax*) 120–121; *Paralichthys orbignyanus* (holotype ident. & redescr. sp.) 235–243; *Hoplias (aimara, macrophthalmus = aimara)* (type specimens of both spp. are same sp.) 516–528; *Leiognathus (longispinis, smithursti = longispinis)* (types of the 2 spp. are the same sp.) 539–543; *Cranopsis = Ollotis* (*C.* is primary homonym of a mollusk, so must be replaced) 558; *Stlegicottus xenogrammus = Rastrinus scutiger* (synon. based on holotype of *S. xenogrammus*, specimens of *R. scutiger* descripts. in lit.) 792–796.

**OSTEOLOGY.** *Chaetostoma changae* n. sp. (n. sp. compared to all 12 congeners from S. tribs. of Amazon R., many osteol. charcs. used) 60–67; *Menidia (menidia, peninsulae)* (intra- & interspec. latitud. var. in vertebrae # thruout geogr. ranges) 431–436; *Gastrotheca cariniceps* n. sp. (heavily ossified cranium, compare osteol. to rels.) 595–603; *Apterionotus bonapartii* (sex. dimorph. in ant. skull bones) 826–833.

**PALEONTOLOGY.** *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) (dwarf Quaternary croc.) 149–158.

**PARASITISM.** *Carapax mowlani* (sea cucumber, new host for pearlfish, evid. of damage to host) 122–128.

**PATHOGENS.** *Rana muscosa* (visual indicator of chytridiomycosis infect. in tdppls., rel. to amphib. popn. declines & extinct.) 188–197.

**PHYLOGENETIC ANALYSIS.** *Rhabdolichops (nigri-mans* n. sp., *navalha* n. sp., *lundbergi* n. sp.) (sister spp., sister clade to all other congeners, retain transitions btwn. *Rhabdolichops* & *Eigenmannia*) 27–42; *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) (clad. anal. of new gen., osteol. charcs.) 149–158; *Aphanius (isfahanensis* n. sp., *sophiae*, *persicus*, *vladykovi*) (clad. anal. of W. clade of *Aphanius*, mtDNA data, sister taxa) 244–255; *Noturus (stanauli, crypticus)* (phyl. anal. of ictalurids w/ mtDNA data shows cryptic spp. & biodivers. hotspots) 378–383; *Percina (burtoni, sp. cf. burtoni)* (of popns., mtDNA data, assess conserv. priorities) 585–594; *Jenynsia diphys* n. sp. (subgen. *Plesiojenynsia*) (of genus, mainly osteol. charcs., new hypoth. of phyl. rels. w/in genus) 613–622; *Dendrobates (tinctorius, azureus = tinctorius)* (mtDNA & morph. charcs. show *D. tinctorius* is single polymorphic sp.) 623–629; *Cryothenia amphitreta* n. sp. (clad. anal. of n. sp. & represents. of 3 subfams. of Nototheniidae, n. sp. in Trematominae, mtDNA data) 752–759; *Plethodon albagula* (clad. anal. of popns. w/ diff. color pttns., inconclusive evid. of mult. spp., mtDNA data) 760–768; *Albula (nemoptera, vulpes* sp. complex) (clad. anal., *A. nemoptera* definitely not prev. suggested genus *Dixonina*, *A. vulpes* sp. E same as *A. nemoptera*, evid. of mistake in GenBank ident.) 778–784.

**PHYSIOLOGY.** *Platymantis (vitianus, vitiensis)* (high skin evap. water loss in Fijian frogs, microhab. diffs. btwn. spp. possible due to high humid. in all microhabs.) 83–88; *Gopherus polyphemus* (daily energy expend. & water influx rates in free-ranging turtles) 129–136; *Micropterus salmoides* (aff. of temp. on prey-capture speed, evid. of physiol. adapt. to cold) 437–444; *Barbus neumayeri* (hypoxia acclim. affs. foraging activ. in swamp-dwelling fish) 552–557; *Crotalus (atrox, horridus)*, *Agkistrodon contortrix* (met. cost of venom prod. very high) 818–825.

**POPULATIONS.** *Clemmys guttata* (popn. demogr. at N edge of sp. range, extreme longev.) 281–288; *Rana clamitans* (tdpls.) (genetic evid. of lack of intrasp. neg. correl. btwn. growth & pred. escape traits in single popn.) 478–488; *Percina (burtoni, sp. cf. burtoni)* (genet. var. w/in & btwn. popns., phyl. anal., assess conserv. priorities) 585–594; *Plethodon albagula* (clad. anal. of popns. w/ diff. color pttns., inconclusive evid. of mult. spp., mtDNA data) 760–768; *Rana temporaria* (agric. habs. not cause abnormalities in frog popns. in S. Finland) 810–817.

**PREDATION.** *Crotalus horridus* (videogr. prod. quantifiable data on mult. aspects of pred. in free-ranging ambush predator) 181–187; *Graptomys geographica* (eff. of introd. muscles as prey, gender diffs. in predation) 268–273; *Bufo calamita* (severe pred. by introd. crayfish on toad eggs) 274–280; *Micropterus salmoides* (aff. of temp. on prey-capture speed, evid. of physiol. adapt. to cold) 437–444; Brazilian Cerrado lizard assemblage (14 spp., 7 fams.) (prey overlaps more w/in fams.) 460–471; *Rana clamitans* (tdpls.) (genetic evid. of lack of intrasp. neg. correl. btwn. growth & pred. escape traits in single popn.) 478–488; *Percina shumardi* (seas. & ontogen. var. in snail-feeding, evid. for snail-feeding in other spp. of subgenus *Imostoma*) 604–612; Psammophiine snakes (*Psammophylax tritaeniatius*, 9 spp. of *Psammophis*) (most spp. eat specific types of lizards, some eat mammals too, *P. tritaeniatius* mainly mammals) 650–664; *Oedura lesueurii* (tail loss not aff. anti-pred. beh.) 803–809.

**REPRODUCTION.** *Phyllodactylus lanei* (aseasonal, extended seas., seas. gender diffs., more eggs in dry seas.) 1–9; *Pseudacris (illinoensis, triseriata)* (ctshp. beh. & calls) 137–144; *Crotaphytus collaris* (male sprint speed rel. to mating success) 216–224; *Clemmys guttata* (reprod. rate, delayed sex. matur., extreme longev., gender diffs.) 281–288; *Mabuya longicaudata* (seas., clutch size, body fat chngs., age at sex. matur., matern. care, island skink) 293–300; *Echinosauro sulcastrum* n. sp. (small size at sex. matur.) 396–403; *Monotocheirodon (pearsoni, sp.)* (morph. & hist. of intromittent organ of *M. sp.*) 529–534; *Ambystoma maculatum* (decaying egg masses, larvae & adults input into detrital food chains, very signif. during repro. seas.) 640–649; Psammophiine snakes (*Psammophylax tritaeniatius*, 9 spp. of *Psammophis*) (most spp. produce small

- clutches, *P. tritaenatus* higher fecund.) 650–664; *Ictalurus punctatus* (genet. evid. of monogamy in male nest-guarding sp.) 735–741.
- RESPIRATION**, *Barbus neumayeri* (hypoxia acclim. affs. foraging activ. in swamp-dwelling fish) 552–557.
- SEX**, *Clemmys guttata* (gender diffs. in extreme longevity) 281–288.
- SEXUAL DIMORPHISM**, *Phyllodactylus lanei* (males larger) 1–9; *Rhabdolichops nigrimans* n. sp. (of caudal appendage length) 27–42; *Chaetostoma changae* n. sp. (in pelvic-fin ray morph.) 60–67; *Tetranematichthys (wallacei)* n. sp., *quadrifilis* (maxil. barbel, head & anter. body, dorsal-fin spine, anal-fin rays) 168–180; *Boa constrictor* (diffs. btwn. island & mainland forms) 261–267; *Mabuya longicaudata* (in body size & shape, island skink) 293–300; *Crotaphytus antiquus* (males larger, stronger bite-force) 301–306; *Orestias piacotensis* n. sp. (females larger) 472–477; Psammophiine snakes (*Psammophylax tritaenatus*, 9 spp. of *Psammophis*) (in most spp. males larger) 650–664; *Calumma* (6 n. spp., revised *brevicornis*, all 5 other lg. occip-lobed spp.) (hampered earlier spp. recogn., male rostral append. var. greatly btwn. spp.) 711–734; *Apterotus bonapartii* (in body depth & skull bones) 826–833.
- SIZE**, *Eplatretus goliath* n. sp. (largest hagfish known) 225–229; *Mabuya longicaudata* (gender diffs., island skink) 293–300; *Echinosaura sulcarostrum* n. sp. (small size at sex. matur.) 396–403; *Leptophilypnus (guatemalensis)* n. sp., *fluvialilis*, *panamensis*, *Microphilypnus* (3 spp.) (dwarf neotropical eleotrids) 489–499.
- SOUND**, *Theragra chalcogramma* (sonic muscle innerv. only by spinal nerves) 116–119.
- SURVIVAL**, *Clemmys guttata* (extreme adult surv., gender diffs.) 281–288.
- SYSTEMATICS**, *Paraxenisthmus (cerberus)* n. sp., *springeri* (n. sp. compare to only congener, 6 specimens for genus) 10–13; *Aspidoscelis (dixonii, tessellata)* (implies. of histocompatibility btwn. spp. & color ptms.) 14–26; *Rhabdolichops (nigrimans)* n. sp., *navalha* n. sp., *lundbergi* n. sp.) (n. spp., genus rediagnosis, phyl. anal., sister spp., sister clade to all other congeners, retain transitions btwn. *Rhabdolichops* & *Eigenmannia*) 27–42; *Rana (cucaen)* n. sp., *vitrea* n. sp., *compotrix* n. sp., *archotaphus* (n. spp. compared to similar *R. archotaphus* & 6 other very sim. spp. recently described) 43–59; *Chaetostoma changae* n. sp. (n. sp. compared to all 12 congeners from S. tribs. of Amazon R., many osteol. charcs. used) 60–67; *Lycodes (akuugun)* n. sp., *diapterus*, *brevipes*, *concolor* (n. sp. compared to similar congeners, notes on comparison to other congeners) 77–82; *Apareiodon (vladii)* n. sp., *piracicabae*, *ibitiensis* (n. sp. compared to the 2 most similar congeners) 89–95; *Varicorhinus tungting* = *Sinilabeo hummeli* n. sp. (misidentified type sp. fixed as *S. hummeli* n. sp., redefine genus, compare to closest rel.) 96–102; *Aldabrachampsus* n. gen. *dilophus* n. sp. (fossil) (n. sp., n. gen., phyl. anal. n. gen.) 149–158; *Tetranematichthys (wallacei)* n. sp., *quadrifilis* (rediagn. gen., n. sp., redescr. T. *quadrifilis*, phyl. notes, key to spp.) 168–180; *Henonemus triacanthopomus* n. sp. (n. sp., rediagn. genus, sister gen. rel. w/ *Acanthopoma*, phyl. rels. w/ in Stegophilinae) 198–205; *Eplatretus goliath* n. sp. (n. sp., single specimen, compare to sim. congeners) 225–229; *Symphurus monostigmus* n. sp. (n. sp., compare to sim. congeners) 230–234; *Paralichthys orbignyana* (holotype ident. & redescr. sp., compare to SW Atlantic congeners) 235–243; *Aphanius (isfahanensis)* n. sp., *sophiae*, *persicus*, *vladikovi* (n. sp., phyl. anal. of W. clade of *Aphanius*) 244–255; squamate reptiles (incl. fossils) (taxon. status of plicidentine in teeth) 337–350; *Scorpaena (gasta)* n. sp., *sumptuosa* (n. sp., compare to closest rel.) 360–369; *Raiamas kheeli* n. sp., *Opsaridium christyi* = *Raiamas christyi*, *Raiamas weeksii* = *Leptocypris weeksii* (n. sp., generic reassigns., phylogen. diag. of the 3 genera) 370–377; *Noturus (stanauli, crypticus)* (phyl. anal. of *Noturus*, *Ameiurus* & other ictalurids, mtDNA data, *N. stanauli*, *N. crypticus* & *N. fasciatus* closely rel., *N. hildebrandi* polyphyl., evid. for new cryptic spp.) 378–383; *Guianacara (stergiosi)* n. sp., *cuyunii* n. sp.) (n. spp., key to the 6 spp. of *Guianacara*) 384–395; *Echinosaura sulcarostrum* n. sp. (n. sp., compare to other gymnophthalmids) 396–403; *Spiniphyne (duhameli)* n. sp., *gladisfenae* (n. sp., revision of genus, key to spp.) 404–411; *Entomoxenus (radius)* n. sp., *benjamini*, *gameri*, *melaphareus* (n. sp., phyl. review of genus, rediagn. of other 3 spp., key to spp.) 412–422; *Notropis (amplamala)* n. sp., *buccatus* (n. sp., described from wide-ranging sister sp.) 423–430; *Maxillicosta (meridianus)* n. sp., *whitleyi* (n. sp. described as sep. from *M. whitleyi*, redescr. *M. whitleyi*) 445–459; *Orestias piacotensis* n. sp. (n. sp., compare to other “agassii complex” spp.) 472–477; *Leptophilypnus (guatemalensis)* n. sp., *fluvialilis*, *panamensis*, *Microphilypnus* (3 spp.) (n. sp. & redescr. the 2 genera & *L. fluvialilis* & *L. panamensis*, remarks on types of *Microphilypnus*) 489–499; *Rhinopias (eschmeyeri, frondosa, aphanes)* (valid. & redescr. of *R. eschmeyeri*, redescr. *R. frondosa* & *R. aphanes*) 500–515; *Hoplias (aimara, macrophthalms)* = *aimara* (type specimens of both spp. are same sp., rediagn. *H. aimara*) 516–528; *Gastrotheca cariniceps* n. sp. (n. sp., extremely robust skull, compare to rels.) 595–603; *Jenynsia diphyes* n. sp. (subgen. *Plesiojenynsia*) (n. sp., phyl. anal. w/ osteol. charcs. indicates new hypoth. of rels. w/ in genus) 613–622; *Dendrobates (tinctorius, azureus)* = *tinctorius* (phyl. anal. of polymorphic sp., mtDNA & morph. charcs.) 623–629; *Knodus tiquiensis* n. sp. (n. sp., compare to all congeners based on type specimen, compare *Knodus* to *Bryconamericus*) 630–639; *Brachyhypopomus bombilla* n. sp. (n. sp., phyl. anal. notes, compare to congeners & other gymnotiforms) 665–673; *Platymantis (nakanaionum)* n. sp., *nexipus* (n. sp., redescr. *P. nexipus*, compare both spp. to all known congeners on New Britain Is. & sim.

congeners from the Solomons & Figi, advert. call & one specimen of another suspected n. sp.) 674–695; *Calumma* (6 n. spp., revised *brevicorne*, all 5 other lg. occip.-lobed spp.) (n. spp., revise & redescr. *C. brevicorne*, phyl. notes, key to all 12 spp.) 711–734; *Cryothenia amphitrete* n. sp. (n. sp., compare to only congener, phyl. anal. of n. sp. & represents. of 3 subfams. of Nototheniidae, n. sp. in Trematominae, mtDNA data) 752–759; “*Hyla*” *chlorostea* = *Hyloscirtus chlorostea* in *Hyloscirtus armatus* sp. group (determ. genus of *H. chlorostea*, compare to *H. armatus*, phyl. discuss. about other *Hyloscirtus* spp.) 785–791.

TEMPERATURE, *Micropterus salmoides* (aff. of temp. on prey-capture speed, evid. of physiol. adapt. to cold) 437–444; Brazilian Cerrado lizard

assemblage (14 spp., 7 fams.) (teiids had highest body temps.) 460–471; *Brachyhyopomus bombilla* n. sp. (EOD waveform temp. sensitive, found in other gymnotiforms) 665–673.

VENOM, *Crotalus (atrox, horridus)*, *Agkistrodon contortrix* (met. cost of venom prod. very high) 818–825.

WATER BALANCE, *Platymantis (vitianus, vitiensis)* (high skin evap. water loss in Fijian frogs, microhab. diffs. btwn. spp. possible due to high humid. in all microhabs.) 83–88; *Gopherus polyphemus* (daily energy expend. & water influx rates in free-ranging turtles) 129–136; *Chelydra serpentina* (var. water cont. of natural nest soil affs. hatching size) 769–777.



# CONTENTS—2006, Nos. 1-4

ALBERT, JAMES S. (see CORREA, SANDRA B.)	
ARMBRUSTER, JONATHAN W. (see PERA, THOMAS P.)	
AVISE, JOHN C. (see TATARENKOV, ANDREY)	
BAIN, RAUL H., BRYAN L. STUART, AND NIKOLAI L. ORLOV. Three New Indochinese Species of Cascade Frogs (Amphibia: Ranidae) Allied to <i>Rana archotaphus</i>	43
BAIRD, AMY B., JEAN K. KREJCA, JAMES R. REDDELL, COLIN E. PEDEN, MEREDITH J. MAHONEY, AND DAVID M. HILLIS. Phylogeographic Structure and Color Pattern Variation among Populations of <i>Plethodon albagula</i> on the Edwards Plateau of Central Texas	760
BALDWIN, ZACHARY H. (see PIETSCH, THEODORE W.)	
BARRETO, FELIPE (see TATARENKOV, ANDREY)	
BARROW, LINDY M., AND LAUREN J. CHAPMAN. Foraging Costs of Hypoxia Acclimation in the Swamp-Dwelling African Cyprinid <i>Barbus neumayeri</i>	552
BITLER, BEN G. (see PFEILER, EDWARD)	
BLOUIN-DEMERS, GABRIEL (see ROW, JEFFREY R.)	
BOBACK, SCOTT M. A Morphometric Comparison of Island and Mainland Boas ( <i>Boa constrictor</i> ) in Belize	261
BORGES, THIAGO A. K. (see REIS, ROBERTO E.)	
BRANCH, WILLIAM R. (see SHINE, RICHARD)	
BRITZ, RALF. Study of the Dorsal Gill-arch Musculature of Teleostome Fishes, with Special Reference to the Actinopterygii, by V. G. Springer and G. D. Johnson with illustrations by Carolyn Darrow and the Appendix, Phylogenetic Analysis of 147 Families of Acanthomorph Fishes Based Primarily on Dorsal Gill-arch Muscles and Skeleton, by V. G. Springer and T. M. Orrell	323
BROCHU, CHRISTOPHER A. A New Miniature Horned Crocodile from the Quaternary of Aldabra Atoll, Western Indian Ocean	149
BROWN, RAFE M., JOHANNES FOUFOPOULOS, AND STEPHEN J. RICHARDS. New Species of <i>Platymanthis</i> (Amphibia; Anura; Ranidae) from New Britain and Redescription of the Poorly Known <i>Platymanthis nexipus</i>	674
BURNS, JOHN R., AND STANLEY H. WEITZMAN. Intromittent Organ in the Genus <i>Monotocheirodon</i> (Characiformes: Characidae)	529
CARUSO, JOHN H., HSUAN-CHING HO, AND THEODORE W. PIETSCH. <i>Chaunacops</i> Garman, 1899, a Senior Objective Synonym of <i>Bathychaunax</i> Caruso, 1989 (Lophiiformes: Chaunacoidei: Chaunacidae)	120
CHAPMAN, LAUREN J. (see BARROW, LINDY M.)	
CHEN, YI-YU (see ZHANG, E.)	
CHENG, C.-H. CHRISTINA (see CZIKO, PAUL A.)	
CHRISTIAN, KEITH A. (see YOUNG, JEANNE E.)	
CLARK, RULON W. Fixed Videography to Study Predation Behavior of an Ambush Foraging Snake, <i>Crotalus horridus</i>	181
COAD, BRIAN W. (see HRBEK, TOMAS)	
COLLI, GUARINO R. (see MESQUITA, DANIEL O.)	
CONOVER, DAVID O. (see YAMAHIRA, KAZUNORI)	
CORDES, JAMES E., AND JAMES M. WALKER. Evolutionary and Systematic Implications of Skin Histocompatibility Among Parthenogenetic Teiid Lizards: Three Color Pattern Classes of <i>Aspidoscelis dixonii</i> and One of <i>Aspidoscelis tessellata</i>	14
CORREA, SANDRA B., WILLIAM G. R. CRAMPTON, AND JAMES S. ALBERT. Three New Species of the Neotropical Electric Fish <i>Rhabdoliophis</i> (Gymnotiformes: Sternopygidae) from the Central Amazon, with a New Diagnosis of the Genus	27
COX FERNANDES, CRISTINA (see HILTON, ERIC J.)	
CRAMPTON, WILLIAM G. R. (see CORREA, SANDRA B.)	
CRUZ, MARIA J., SANDRA PASCOAL, MIGUEL TEJEDO, AND RUI REBELO. Predation by an Exotic Crayfish, <i>Procambarus clarkii</i> , on Natterjack Toad, <i>Bufo calamita</i> , Embryos: Its Role on the Exclusion of this Amphibian from its Breeding Ponds	274
CZIKO, PAUL A., AND C.-H. CHRISTINA CHENG. A New Species of Nototheniid (Perciformes: Nototheniidae) Fish from McMurdo Sound, Antarctica	752
DAVIS, STACEY K., ANTHONY A. ECHELLE, AND RONALD A. VAN DEN BUSSCHE. Lack of Cytonuclear Genetic Introgression Despite Long-Term Hybridization and Backcrossing between Two Poeciliid Fishes ( <i>Gambusia heterochir</i> and <i>G. affinis</i> )	351
DE LA RIVA, IGNACIO (see FAIVOVICH, JULIÁN)	
DESOUTTER, MARTINE (see DÍAZ DE ASTARLOA, JUAN M.)	
DEVRÉS, MAYA S., AND PETER C. WAINWRIGHT. The Effects of Acute Temperature Change on Prey Capture Kinematics in Largemouth Bass, <i>Micropterus salmoides</i>	437

DÍAZ DE ASTARLOA, JUAN M., THOMAS A. MUNROE, AND MARTINE DESOUTTER. Redescription and Holotype Clarification of <i>Paralichthys orbignyanus</i> (Valenciennes, 1839) (Pleuronectiformes: Paralichthyidae)	235
DO NASCIMENTO, CARLOS, AND FRANCISCO PROVENZANO. The Genus <i>Henonemus</i> (Siluriformes: Trichomycteridae) with a Description of a New Species from Venezuela	198
DONNELLY, MAUREEN A., ROSS D. MACCULLOCH, CRISTINA A. UGARTE, AND DAVID KIZIRIAN. A New Riparian Gymnophthalmid (Squamata) from Guyana	396
DUELLMAN, WILLIAM E., LINDA TRUEB, AND EDGAR LEHR. A New Species of Marsupial Frog (Anura: Hylidae: <i>Gastrotheca</i> ) from the Amazonian Slopes of the Cordillera Oriental in Peru	595
DUNLAP, KENT D. Ontogeny and Scaling of Hematocrit and Blood Viscosity in Western Fence Lizards, <i>Sceloporus occidentalis</i>	535
ECELLE, ANTHONY A. (see DAVIS, STACEY K.)	
EPPERSON, DEBORAH M. (see JODICE, PATRICK G. R.)	
ESPINOSA-PÉREZ, HÉCTOR (see NELSON, JOSEPH S.)	
ETNIER, DAVID A. Fishes of Alabama, by Herbert T. Boschung, Jr. and Richard L. Mayden	321
FAIVOVICH, JULIÁN, AND IGNACIO DE LA RIVA. On " <i>Hyla</i> " <i>chlorostea</i> Reynolds and Foster, 1992, a Hylid of Uncertain Relationships, with Some Comments on <i>Hyloscirtus</i> (Anura: Hylidae)	785
FERRARIS, JR., CARL J. (see VARI, RICHARD P.)	
FERREIRA, KATIANE M., AND FLÁVIO C. T. LIMA. A New Species of <i>Knodus</i> (Characiformes: Characidae) from the Rio Tiquié, Upper Rio Negro System, Brazil	630
FINDLEY, LLOYD T. (see NELSON, JOSEPH S.)	
FINKLER, MICHAEL S. Does Variation in Soil Water Content Induce Variation in the Size of Hatchling Snapping Turtles ( <i>Chelydra serpentina</i> )?	769
FOUFOPOULOS, JOHANNES (see BROWN, RAFE M.)	
FOX, STANLEY F. (see HUSAK, JERRY F.)	
FRANÇA, FREDERICO G. R. (see MESQUITA, DANIEL O.)	
FROST, DARREL R., TARAN GRANT, AND JOSEPH R. MENDELSON, III. <i>Ollotis</i> Cope, 1875 is the Oldest Name for the Genus Currently Referred to as <i>Cranopsis</i> Cope, 1875 (Anura: Hylloides: Bufonidae)	558
GEORGE, ANNA L., DAVID A. NEELY, AND RICHARD L. MAYDEN. Conservation Genetics of an Imperiled Riverine Fish from Eastern North America, the Blotchside Logperch, <i>Percina burtoni</i> (Teleostei: Percidae)	585
GHEDOTTI, MICHAEL J. (see LUCINDA, PAULO H. F.)	
GILBERT, CARTER R. (see NELSON, JOSEPH S.)	
GILL, ANTHONY C. (see WINTERBOTTOM, RICHARD)	
GILLINGHAM, JAMES C. (see MOORE, JENNIFER A.)	
GOMON, MARTIN F. (see MOTOMURA, HIROYUKI)	
GRAÇA, WEFERSON J. (see LUCINDA, PAULO H. F.)	
GRANT, TARAN (see FROST, DARREL R.)	
GREENE, BRIAN D. (see ROTH, II, TIMOTHY C.)	
GREENFIELD, DAVID W. Reef and Shore Fishes of the South Pacific: New Caledonia to Tahiti and the Pitcairn Islands, by John E. Randall	322
HAAG, WENDELL R., AND MELVIN L. WARREN, JR. Seasonal Feeding Specialization on Snails by River Darters ( <i>Percina shumardi</i> ) with a Review of Snail Feeding by Other Darter Species	604
HAMEL, JEAN-FRANÇOIS (see PARMENTIER, ÉRIC)	
HARDMAN, MICHAEL (see NEAR, THOMAS J.)	
HARLOW, PETER S. (see SHINE, RICHARD)	
HILLIS, DAVID M. (see BAIRD, AMY B.)	
HILTON, ERIC J., AND CRISTINA COX FERNANDES. Sexual Dimorphism in <i>Apteronotus bonapartii</i> (Gymnotiformes: Apteronotidae)	826
HO, HSUAN-CHING (see CARUSO, JOHN H.)	
HRBEK, TOMAS, YAZDAN KEIVANY, AND BRIAN W. COAD. New Species of <i>Aphanius</i> (Teleostei, Cyprinodontidae) from Isfahan Province of Iran and a Reanalysis of Other Iranian Species	244
HUANG, WEN-SAN. Ecological Characteristics of the Skink, <i>Mabuya longicaudata</i> , on a Tropical East Asian Island	293
HUSAK, JERRY F. (see PETERSON, CHARLES C.)	
HUSAK, JERRY F., A. KRISTOPHER LAPPIN, STANLEY F. FOX, AND JULIO A. LEMOS-ESPINAL. Bite-Force Performance Predicts Dominance in Male Venerable Collared Lizards ( <i>Crotaphytus antiquus</i> )	301
JODICE, PATRICK G. R., DEBORAH M. EPPERSON, AND G. HENK VISSER. Daily Energy Expenditure in Free-Ranging Gopher Tortoises ( <i>Gopherus polyphemus</i> )	129
JOHNSON, JEFFREY W. (see MOTOMURA, HIROYUKI)	
KEARNEY, MAUREEN (see TSUIHJI, TAKANOBU)	
KEARNEY, MAUREEN, AND OLIVIER RIEPPEL. An Investigation into the Occurrence of Plicidentine in the Teeth of Squamate Reptiles	337
KEIVANY, YAZDAN (see HRBEK, TOMAS)	

KELEHEAR, CRYSTAL, AND JONATHAN K. WEBB. Effects of Tail Autotomy on Anti-Predator Behavior and Locomotor Performance in a Nocturnal Gecko .....	803
KIZIRIAN, DAVID (see DONNELLY, MAUREEN A.)	
KNAPP, ROLAND A., AND JESS A. T. MORGAN. Tadpole Mouthpart Depigmentation as an Accurate Indicator of Chytridiomycosis, an Emerging Disease of Amphibians .....	188
KREJCA, JEAN K. (see BAIRD, AMY B.)	
KULLANDER, SVEN O. (see LÓPEZ-FERNÁNDEZ, HERNÁN)	
KULLANDER, SVEN O. (see ZHANG, E.)	
LANKFORD, JR., THOMAS E. (see YAMAHIRA, KAZUNORI)	
LAPPIN, A. KRISTOPHER (see HUSAK, JERRY F.)	
LAST, PETER R. (see MOTOMURA, HIROYUKI)	
LEA, ROBERT N. (see NELSON, JOSEPH S.)	
LEHR, EDGAR (see DUELLMAN, WILLIAM E.)	
LEHR, EDGAR. Amphibien an Einem Stillgewässer in Peru—Mit Einer Illustrierten Checklist der Amphibien und Reptilien des Unteren Río Lluallapichis/Amphibians of an Amazonian Blackwater Pond in Peru—With Illustrated Checklist of the Amphibians and Reptiles of the Lower Río Lluallapichis by Andreas Schlüter .....	834
LEHTINEN, RICHARD M., AND ALLEN A. SKINNER. The Enigmatic Decline of Blanchard's Cricket Frog ( <i>Acris crepitans blanchardi</i> ): A Test of the Habitat Acidification Hypothesis .....	159
LEMONS-ESPINAL, JULIO A. (see HUSAK, JERRY F.)	
LIMA, FLÁVIO C. T. (see FERREIRA, KATIANE M.)	
LINDEMAN, PETER V. Zebra and Quagga Mussels ( <i>Dreissena</i> spp.) and Other Prey of a Lake Erie Population of Common Map Turtles (Emydidae: <i>Graptemys geographica</i> ) .....	268
LITZGUS, JACQUELINE D. Sex Differences in Longevity in the Spotted Turtle ( <i>Clemmys guttata</i> ) .....	281
LÓPEZ-FERNÁNDEZ, HERNÁN, DONALD C. TAPHORN BAECHLE, AND SVEN O. KULLANDER. Two New Species of <i>Guianacara</i> from the Guiana Shield of Eastern Venezuela (Perciformes: Cichlidae) .....	384
LÖTTTERS, STEFAN (see WOLLENBERG, KATHARINA C.)	
LOUREIRO, MARCELO, AND ANA SILVA. A New Species of <i>Brachyhyopomus</i> (Gymnotiformes, Hypopomidae) from Northeast Uruguay .....	665
LUCINDA, PAULO H. F., MICHAEL J. GHEDOTTI, AND WEFERSON J. GRAÇA. A New <i>Jenynsia</i> Species (Teleostei, Cyprinodontiformes, Anablepidae) from Southern Brazil and its Phylogenetic Position .....	613
MACCULLOCH, ROSS D. (see DONNELLY, MAUREEN A.)	
MAHONEY, MEREDITH J. (see BAIRD, AMY B.)	
MAHONEY, MEREDITH J. (see MULCAHY, DANIEL G.)	
MANDRAK, NICK E. (see NELSON, JOSEPH S.)	
MARSH-MATTHEWS, E. (see MATTHEWS, W. J.)	
MATSUI, MASAFUMI, KANTO NISHIKAWA, AHMAD SUDIN, AND MARYATI MOHAMED. The First Karyotypic Report of the Genus <i>Caudacacilia</i> with Comments on its Generic Validity (Amphibia, Gymnophiona, Ichthyophiidae) .....	256
MATTHEWS, W. J., AND E. MARSH-MATTHEWS. Persistence of Fish Species Associations in Pools of a Small Stream of the Southern Great Plains .....	696
MATTOX, GEORGE M. T., MÓNICA TOLEDO-PIZA, AND OSVALDO T. OYAKAWA. Taxonomic Study of <i>Hoplias aimara</i> (Valenciennes, 1846) and <i>Hoplias macrophthalmus</i> (Pellegrin, 1907) (Ostariophysi, Characiformes, Erythrinidae) .....	516
MAYDEN, RICHARD A. (see GEORGE, ANNA L.)	
MCCARTHER, LORRAE J. (see YOUNG, JEANNE E.)	
MCCUE, MARSHALL D. Cost of Producing Venom in Three North American Pitviper Species .....	818
MCPEEK, MARK A. (see WATKINS, TIMOTHY B.)	
MENDELSON, III, JOSEPH R. (see FROST, DARREL R.)	
MERCIER, ANNIE (see PARMENTIER, ÉRIC)	
MERILÄ, JUHA (see PIHA, HENNA)	
MESQUITA, DANIEL O., GUARINO R. COLLI, FEDERICO G. R. FRANÇA, AND LAURIE J. VITT. Ecology of a Cerrado Lizard Assemblage in the Jalapão Region of Brazil .....	460
MINCARONE, MICHAEL M. AND ANDREW L. STEWART. A New Species of Giant Seven-gilled Hagfish (Myxinidae: <i>Eptatretus</i> ) from New Zealand .....	225
MITCHELL, JOSEPH C. Ernest Anthony Liner .....	316
MOHAMED, MARYATI (see MATSUI, MASAFUMI)	
MOORE, JENNIFER A., AND JAMES C. GILLINGHAM. Spatial Ecology and Multi-Scale Habitat Selection by a Threatened Rattlesnake: The Eastern Massasauga ( <i>Sistrurus catenatus catenatus</i> ) .....	742
MORGAN, JESS A. T. (see KNAPP, ROLAND A.)	
MOTOMURA, HIROYUKI, AND JEFFREY W. JOHNSON. Validity of the Poorly Known Scorpionfish, <i>Rhinopias eschmeyer</i> , with Redescriptions of <i>R. frondosa</i> and <i>R. aphanes</i> (Scorpaeniformes: Scorpaenidae) .....	500
MOTOMURA, HIROYUKI, PETER R. LAST, AND GORDON K. YEARSLEY. New Species of Shallow Water Scorpionfish (Scorpaenidae: <i>Scorpaena</i> ) from the Central Coast of Western Australia .....	360

MOTOMURA, HIROYUKI, PETER R. LAST, AND MARTIN F. GOMON. A New Species of the Scorpionfish Genus <i>Maxillicosta</i> from the Southeast Coast of Australia, with a Redescription of <i>M. whitleyi</i> (Scorpaeniformes: Neosebastidae) .....	445
MULCAHY, DANIEL G., AND MEREDITH J. MAHONEY. Robert Cyril Stebbins .....	563
MUNROE, THOMAS A. (see DÍAZ DE ASTARLOA, JUAN M.)	
MUNROE, THOMAS A. New Western Indian Ocean Tonguefish (Pleuronectiformes: Cynoglossidae, <i>Symphurus</i> ) .....	230
NEAR, THOMAS J., AND MICHAEL HARDMAN. Phylogenetic Relationships of <i>Noturus stanauli</i> and <i>N. crypticus</i> (Siluriformes: Ictaluridae), Two Imperiled Freshwater Fish Species from the Southeastern United States .....	378
NEELY, DAVID A. (see GEORGE, ANNA L.)	
NELSON, JOSEPH S., HÉCTOR ESPINOSA-PÉREZ, LLOYD T. FINDLEY, CARTER R. GILBERT, ROBERT N. LEA, NICK E. MANDRAK, AND JAMES D. WILLIAMS. Corrections to 'Common and Scientific Names of Fishes from the United States, Canada, and Mexico' .....	559
NISHIKAWA, KANTO (see MATSUI, MASAFUMI)	
NOONAN, BRICE P. (see WOLLENBERG, KATHARINA C.)	
NUSSBAUM, RONALD A. (see RAXWORTHY, CHRISTOPHER J.)	
ONUKI, ATSUSHI, AND HIROAKI SOMIYA. Spinal Nerve Innervation to the Sonic Muscle in Walleye Pollack, <i>Theragra chalcogramma</i> (Gadidae, Gadiformes) .....	116
ORLOV, NIKOLAI L. (see BAIN, RAOUL H.)	
ORR, JAMES W. (see STEVENSON, DUANE E.)	
OWEN, PATRICK C., AND JOHN K. TUCKER. Courtship Calls and Behavior in Two Species of Chorus Frogs, Genus <i>Pseudacris</i> (Anura: Hylidae) .....	137
OYAKAWA, OSVALDO T. (see MATTOX, GEORGE M. T.)	
PARMENTIER, ÉRIC, ANNIE MERCIER, AND JEAN-FRANÇOIS HAMEL. New Host and Geographical Distribution for the Pearlfish <i>Carapus mourlani</i> (Carapidae) with a Discussion on its Biology .....	122
PASCOAL, SANDRA (see CRUZ, MARIA J.)	
PAVANELLI, CARLA SIMONE. New Species of <i>Apareiodon</i> (Teleostei: Characiformes: Parodontidae) from the Rio Piquiri, Upper Rio Paraná Basin, Brazil .....	89
PEDEN, COLIN E. (see BAIRD, AMY B.)	
PEKKONEN, MINNA (see PIHA, HENNA)	
PERA, THOMAS P., AND JONATHAN W. ARMBRUSTER. A New Species of <i>Notropis</i> (Cypriniformes: Cyprinidae) from the Southeastern United States .....	423
PETERSON, CHARLES C., AND JERRY F. HUSAK. Locomotor Performance and Sexual Selection: Individual Variation in Sprint Speed of Collared Lizards ( <i>Crotaphytus collaris</i> ) .....	216
PEZOLD, FRANK (see THACKER, CHRISTINE E.)	
PFEILER, EDWARD, BEN G. BITLER, AND RAÚL ULLOA. Phylogenetic Relationships of the Shafted Bonefish <i>Albula nemoptera</i> (Albuliformes: Albulidae) from the Eastern Pacific Based on Cytochrome <i>b</i> Sequence Analyses .....	778
PIETSCH, THEODORE W. (see CARUSO, JOHN H.)	
PIETSCH, THEODORE W., AND ZACHARY H. BALDWIN. A Revision of the Deep-Sea Anglerfish Genus <i>Spiniphryne</i> Bertelsen (Lophiiformes: Ceratioidei: Oneirodidae), with Description of a New Species from the Central and Eastern North Pacific Ocean .....	404
PIHA, HENNA, MINNA PEKKONEN, AND JUHA MERILÄ. Morphological Abnormalities in Amphibians in Agricultural Habitats: A Case Study of the Common Frog <i>Rana temporaria</i> .....	810
PIKE, DAVID A. Movement Patterns, Habitat Use, and Growth of Hatchling Turtles, <i>Gopherus polyphemus</i> .....	68
POSNER, ISA (see STAUFFER, JR., JAY R.)	
PROVENZANO, FRANCISCO (see DONASCIMENTO, CARLOS)	
RAMÍREZ-BAUTISTA, AURELIO (see RAMÍREZ-SANDOVAL, ELIZABETH)	
RAMÍREZ-SANDOVAL, ELIZABETH, AURELIO RAMÍREZ-BAUTISTA, AND LAURIE J. VITT. Reproduction in the Lizard <i>Phyllodactylus lanei</i> (Squamata: Gekkonidae) from the Pacific Coast of México .....	1
RAXWORTHY, CHRISTOPHER J., AND RONALD A. NUSSBAUM. Six New Species of Occipital-Lobed <i>Calumma</i> Chameleons (Squamata: Chamaeleonidae) from Montane Regions of Madagascar, with a New Description and Revision of <i>Calumma brevicorne</i> .....	711
REBELO, RUI (see CRUZ, MARIA J.)	
REDDILL, JAMES R. (see BAIRD, AMY B.)	
REGERSTER, KURT J., AND MATT R. WHILES. Decomposition Rates of Salamander ( <i>Ambystoma maculatum</i> ) Life Stages and Associated Energy and Nutrient Fluxes in Ponds and Adjacent Forest in Southern Illinois .....	640
REIS, ROBERTO E., AND THIAGO A. K. BORGES. The South American Catfish Genus <i>Entomocorus</i> (Ostariophysi: Siluriformes: Auchenipteridae), with the Description of a New Species from the Paraguay River Basin .....	412
RICHARDS, STEPHEN J. (see BROWN, RAFF M.)	

RIEPEL, OLIVIER (see KEARNEY, MAUREEN)	
RIEPEL, OLIVIER (see TSUIHJI, TAKANOBU)	
ROTH, II, TIMOTHY C., AND BRIAN D. GREENE. Movement Patterns and Home Range Use of the Northern Watersnake ( <i>Nerodia sipedon</i> )	544
ROW, JEFFREY R., AND GABRIEL BLOUIN-DEMERS. Kernels Are Not Accurate Estimators of Home-Range Size for Herpetofauna	797
RYAN, MICHAEL J. Austin Stanley Rand, 1932–2005	573
SALCEDO, NORMA J. New Species of <i>Chaetostoma</i> (Siluriformes: Loricariidae) from Central Peru	60
SHELLY, ROBERT C. (see STIASNY, MELANIE L. J.)	
SCHLIEWEN, ULRICH K. (see STIASNY, MELANIE L. J.)	
SHINE, RICHARD, WILLIAM R. BRANCH, JONATHAN K. WEBB, PETER S. HARLOW, AND TERRI SHINE. Sexual Dimorphism, Reproductive Biology, and Dietary Habits of Psammophiine Snakes (Colubridae) from Southern Africa	650
SHINE, RICHARD, WILLIAM R. BRANCH, PETER S. HARLOW, JONATHAN K. WEBB, AND TERRI SHINE. Biology of Burrowing Asps (Atractaspididae) from Southern Africa	103
SHINE, TERRI (see SHINE, RICHARD)	
SILVA, ANA (see LOUREIRO, MARCELO)	
SKINNER, ALLEN A. (see LEHTINEN, RICHARD M.)	
SMITH, DAVID G. William Beverley Scott	307
SOMIYA, HIROAKI (see ONUKI, ATSUSHI)	
SPARKS, JOHN S. <i>Leiognathus longispinis</i> (Valenciennes, in Cuvier and Valenciennes, 1835), a Senior Synonym of <i>Leiognathus smithursti</i> (Ramsay and Ogilby, 1886) (Teleostei: Leiognathidae)	539
STAUFFER, JR., JAY R., AND ISA POSNER. An Investigation of the Utility of Feeding Angles Among Lake Malawi Rock-dwelling Cichlids (Teleostei: Cichlidae)	289
STEVENSON, DUANE E. <i>Stlegicottus xenogrammus</i> Bolin, 1936 (Scorpaeniformes: Cottidae), a Junior Synonym of <i>Rastrinus scutiger</i> (Bean, 1890)	792
STEVENSON, DUANE E., AND JAMES W. ORR. A new species of <i>Lycodes</i> (Perciformes: Zoarcidae) from the Aleutian Islands	77
STEWART, ANDREW L. (see MINCARONE, MICHAEL M.)	
STIASNY, MELANIE L. J., ROBERT C. SHELLY, AND ULRICH K. SCHLIEWEN. A New Species of <i>Raiamas</i> (Teleostei: Cyprinidae) from the Lower Congo River, with a Phylogenetic Assessment of the Generic Limits of the Predatory Cyprinid Genera <i>Opsaridium</i> , <i>Raiamas</i> , and <i>Leptocypris</i>	370
STUART, BRYAN L. (see BAIN, RAOUL H.)	
SUDIN, AHMAD (see MATSUI, MASAFUMI)	
SUTTKUS, ROYAL D. (see THACKER, CHRISTINE E.)	
TAPHORN BAECHLE, DONALD C. (see LÓPEZ-FERNÁNDEZ, HERNÁN)	
TATARENKOV, ANDREY, FELIPE BARRETO, DANA L. WINKELMAN, AND JOHN C. AVISE. Genetic Monogamy in the Channel Catfish, <i>Ictalurus punctatus</i> , a Species with Uniparental Nest Guarding	735
TEJEDO, MIGUEL (see CRUZ, MARIA J.)	
THACKER, CHRISTINE E., FRANK PEZOLD, AND ROYAL D. SUTTKUS. Redescription of the Dwarf Neotropical Eleotrid Genus <i>Leptophilypnus</i> (Teleostei: Gobioidae), Including a New Species and Comments on <i>Microphilypnus</i>	489
TOLEDO-PIZA, MÓNICA (see MATTOX, GEORGE M. T.)	
TRACY, CHRISTOPHER R. (see YOUNG, JEANNE E.)	
TRUEB, LINDA (see DUELLMAN, WILLIAM E.)	
TRUEB, LINDA. Evolution of the Amphibian Skull, by Natalia S. Lebedkina (Translated and edited by Sergei V. Smirnov)	578
TSUIHJI, TAKANOBU, MAUREEN KEARNEY, AND OLIVIER RIEPEL. First Report of a Pectoral Girdle Muscle in Snakes, with Comments on the Snake Cervico-dorsal Boundary	206
TUCKER, JOHN K. (see OWEN, PATRICK C.)	
UGARTE, CRISTINA A. (see DONNELLY, MAUREEN A.)	
ULLOA, RAÚL (see PFEILER, EDWARD)	
VAN DEN BUSSCHE, RONALD A. (see DAVIS, STACEY K.)	
VARI, RICHARD P., AND CARL J. FERRARIS, JR. The Catfish Genus <i>Tetranemataichthys</i> (Auchenipteridae)	168
VEITH, MICHAEL (see WOLLENBERG, KATHARINA C.)	
VILA, IRMA. A New Species of Killifish in the Genus <i>Orestias</i> (Teleostei: Cyprinodontidae) from the Southern High Andes, Chile	472
VISSER, G. HENK (see JODICE, PATRICK G. R.)	
VITT, LAURIE J. (see MESQUITA, DANIEL O.)	
VITT, LAURIE J. (see RAMÍREZ-SANDOVAL, ELIZABETH)	
WAINWRIGHT, PETER C. (see deVRIES, MAYA S.)	
WALKER, JAMES M. (see CORDES, JAMES E.)	
WARREN, JR., MELVIN L. (see HAAG, WENDELL R.)	

WATKINS, TIMOTHY B., AND MARK A. MCPEEK. Growth and Predation Risk in Green Frog Tadpoles ( <i>Rana clamitans</i> ): A Quantitative Genetic Analysis .....	478
WEBB, JONATHAN K. (see KELEHEAR, CRYSTAL)	
WEBB, JONATHAN K. (see SHINE, RICHARD)	
WEITZMAN, STANLEY H. (see BURNS, JOHN R.)	
WHILES, MATT R. (see REGESTER, KURT J.)	
WILLIAMS, JAMES D. (see NELSON, JOSEPH S.)	
WINKELMAN, DANA L. (see TATARENKOV, ANDREY)	
WINTERBOTTOM, RICHARD, AND ANTHONY C. GILL. <i>Paraxenisthmus cerberusi</i> , a New Species of Xenisthmidae Fish from Palau (Percomorpha: Gobioidae) .....	10
WOLLENBERG, KATHARINA C., MICHAEL VEITH, BRICE P. NOONAN, AND STEFAN LÖTTERS. Polymorphism Versus Species Richness—Systematics of Large <i>Dendrobates</i> from the Eastern Guiana Shield (Amphibia: Dendrobatidae) .....	623
YAMAHIRA, KAZUNORI, THOMAS E. LANKFORD, JR., AND DAVID O. CONOVER. Intra- and Interspecific Latitudinal Variation in Vertebral Number of <i>Menidia</i> spp. (Teleostei: Atherinopsidae) .....	431
YEARSLEY, GORDON K. (see MOTOMURA, HIROYUKI)	
YOUNG, JEANNE E., CHRISTOPHER R. TRACY, KEITH A. CHRISTIAN, AND LORRAE J. MCARTHUR. Rates of Cutaneous Evaporative Water Loss of Native Fijian Frogs .....	83
ZHANG, E., SVEN O. KULLANDER, AND YI-YU CHEN. Fixation of the Type Species of the Genus <i>Sinilabeo</i> and Description of a New Species from the Upper Yangtze River Basin, China (Pisces: Cyprinidae) .....	96



